



Certificate of Compliance

This certificate is issued for the following:

Polyethylene (PE) Pipe and Fittings for Underground Fire Protection Service

SDR7.4 EF couplers

**SDR9 BF Stub End, Cap, BF Elbow 45°, BF Elbow 90°
SDR9 BF Reducer, HT BF 90° Tee, HTRA Reducing Tee**
(see listing attached)

Prepared for:

NUPI INDUSTRIE ITALIANE S.p.A
Via Stefano Ferrario n. 8, Z.I. Sud-Ovest - 21052
Busto Arsizio (VA)
Italy

FM Approvals Class: 1613 (February 2017)

Approval Identification: PR460246

Approval Granted: September 17, 2021

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group





Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
EF Coupler	SDR11	63, 75	16	(230)
EF Coupler	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280	17	(245)
EF Coupler	SDR11	315, 355, 400, 450, 500, 560, 630	12.75	(180)
EF Reducer	SDR11	75x63 90x63 110x63,90	16	(230)
EF Reducer	SDR11	125x63,90,110 160x90,110,125 200x160,180 225x160,180,200 250x180,200,225 315x250,280	12	(170)
EF Elbow 90°	SDR11	63	16	(230)
EF Elbow 90°	SDR11	75, 90, 110, 125, 160, 200, 225, 250	12	(170)
EF Elbow 45°	SDR11	63	16	(230)
EF Elbow 45°	SDR11	75, 90, 110, 125, 160, 200, 225, 250	12	(170)
EF Tee	SDR11	63, 75, 90, 110	12	(170)
EF Cap	SDR11	63	16	(230)
BF Cap	SDR11	90, 110, 125, 140, 160, 180, 200, 315, 355, 400, 450, 500	12	(170)
BF Reducer	SDR11	110x90 125x90,110 140x90,110,125 140x90,110,125 160x90,110,125,140 180x125,160 200x160,180	12	(170)



Member of the FM Global Group



Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
		225x160,180,200 250x180,200,225 280x200,225,250 315x225,250,280 355x250,280,315 400x315,355 450x355 500x355,400,450 560x450,500		
BF Elbow 90°	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250	12.75	(180)
BF Elbow 90°	SDR11	315	12	(170)
BF Elbow 45°	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250	12.75	(180)
BF Elbow 45°	SDR11	315	12	(170)
BF Tee	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 315	12.75	(180)
BF Reducing Tee	SDR11	110x90 125x90,110 140x90,110,125 160x90,110,125,140 180x125,160 200x160,180 225x160,180,200 250x180,200,225 280x200,225,250 315x225,250,280 355x250,280,315 400x315,355 450x355 500x355,400,450 560x450,500	12	(170)
EF Branch Saddle	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	12.75	(180)



Member of the FM Global Group



Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
BF Stub End	SDR11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	12.75	(180)
PE/Steel Plain Transition Fitting (ERPEAL)	SDR11	75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12.75	(180)
PE/Steel Threaded Transition Fitting (ERPEAF)	SDR11	63, 75, 90, 110, 125	12.75	(180)
PE/Steel Coated Threaded Transition Fitting (ERPEARCZ)	SDR11	63, 75, 90, 110	12.75	(180)
PE/Steel Threaded Curved Transition Fitting (ERTCFZ)	SDR11	63, 75, 90	12.75	(180)
PE/Brass Male Threaded Transition Fitting (ERFM)	SDR11	63, 75, 90, 110, 125	12.75	(180)
PE/Brass Female Threaded Transition Fitting (ERFF)	SDR11	63, 75, 90, 110, 125	12.75	(180)



Member of the FM Global Group



Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
Galvanized Steel Flange (FLAAC)	SDR11	63, 75, 90, 110, 125, 140, 160, 180, 225	12.75	(180)
Galvanized Steel Flange (FLAAC)	SDR11	250, 280, 315	10.35	(150)
EF Coupler	SDR11	(2, 3, 4, 6, 8, 10)	17	(245)
EF Coupler	SDR11	(12, 14, 16, 18, 20, 22, 24, 28)	12.75	(180)
BF Elbow 90°	SDR11	(2, 3, 4, 6)	12.75	(180)
BF Elbow 90°	SDR11	(8)	13.8	(200)
BF Elbow 45°	SDR11	(2, 3, 4, 6)	12.75	(180)
BF Elbow 45°	SDR11	(8)	13.8	(200)
BF Tee	SDR11	(2, 3, 4, 6)	12.75	(180)
BF Tee	SDR11	(8)	13.8	(200)
EF Branch Saddle	SDR11	(2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 28)	12.75	(180)
BF Stub End	SDR11	(2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24)	13.8	(200)
Backing Ring	SDR11	(2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24)	13.8	(200)
BF Stub End	SDR7	(2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20)	20	(290)
Backing Ring	SDR7	(2, 3, 4, 6, 8, 10, 12, 14, 16, 18, 20)	20	(290)
EF Couplers	SDR7.4	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	21.3	(310)
BF Stub End Long Spigot	SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 400	18.2	(265)



Member of the FM Global Group



Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
BF Stub End Short Spigot	SDR9	110, 125, 140, 160, 180, 400	18.2	(265)
BF Cap long spigot	SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250	18.2	(265)
BF Cap short spigot	SDR9	280, 315	18.2	(265)
BF 45° Elbow long spigot	SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	18.2	(265)
BF 90° Elbow long spigot	SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	18.2	(265)
BF Reducer long spigot	SDR9	90x63, 90x75, 110x63, 110x75, 110x90, 125x63, 125x75, 125x90, 125x110, 140x90, 140x110, 140x125, 160x90, 160x110, 160x125, 160x140, 180, 125, 180x140, 180x160, 200x140, 200x160, 200x180	18.2	(265)
BF Reducer short spigot	SDR9	200x160, 200x180, 225x160, 225x180, 225x200, 250x180, 250x200, 250x225, 280x200, 280x225, 280x250, 315x225, 315x250, 315x280, 355x250, 355x280, 355x315, 400x280, 400x315, 400x355	18.2	(265)
HT BF 90° Tee long spigot SDR9	SDR9	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	18.2	(265)
HTRA Reducing Tee spigot SDR9	SDR9	315x63, 315x75, 315x90, 315x110, 315x125, 315x140, 315x160, 315x200, 315x250, 355x90, 355x125, 355x140, 355x160, 355x200, 355x250, 400x90, 400x125, 400x140, 400x160, 400x200, 400x250, 400x315	18.2	(265)
Pipe	SDR 11	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315 (3, 4, 5, 5 1/2, 6, 7, 8, 9, 10, 11, 12)		(180)
Pipe	SDR 11	355, 400 (14, 16)	15	(215)



Member of the FM Global Group



Certificate of Compliance

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure	
			bar	(psi)
Pipe	SDR 11	450 (18)	14	(200)
Pipe	SDR 11	500 (20)	12	(170)
Pipe	SDR 11	560 (22)	15	(215)
Pipe	SDR 11	630 (24)	12	(170)
Pipe	SDR 7.4	50, 63, 75 (2, 2-1/2, 3)	20.9	(300)



Member of the FM Global Group