

Certificate of Compliance

This certificate is issued for the following:

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

SDR 11, SDR 9, and SDR 7.4

Prepared for:

Union Pipes Industry - K.S.A.
Building No. 3654, Industrial Area Phase 1, King Abdullah Economic City, Rabigh 23989
Saudi Arabia

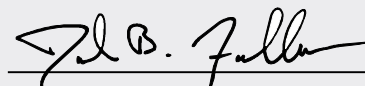
Approval Standard: FM 1613 (October 2022)

Approval Identification: PR468641

Approval Granted: 21 August 2026

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, reading 'D.B. Fuller'.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1165 Boston-Providence Turnpike
Norwood, MA 02062



Polyethylene Pipe and Fittings

Product Description

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
HDPE Pipe	SDR11 Pipe	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1	(190)	a
HDPE Pipe	SDR9 Pipe	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
HDPE Pipe	SDR7.4 Pipe	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
30 Degree Elbow	SDR11 Fabricated 30 Degree Elbow, 3 Segment	90, 110, 125, 140, 160,180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1	(190)	a
30 Degree Elbow	SDR11 Fabricated 30 Degree Elbow, 2 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	13.1	(190)	
30 Degree Elbow	SDR9 Fabricated 30 Degree Elbow, 2 Segment	90, 110, 125, 140, 160,180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
30 Degree Elbow	SDR9 Fabricated 30 Degree Elbow, 3 Segment	90, 110, 125, 140, 160,180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
30 Degree Elbow	SDR7.4 Fabricated 30 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
30 Degree Elbow	SDR7.4 Fabricated 30 Degree Elbow, 2 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
45 Degree Elbow	SDR11 Fabricated 45 Degree Elbow, 3 Segment	90, 110, 125, 140, 160,180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1	(190)	a
45 Degree Elbow	SDR9 Fabricated 45 Degree Elbow, 3 Segment	90, 110, 125, 140, 160,180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
45 Degree Elbow	SDR7.4 Fabricated 45 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
60 Degree Elbow	SDR11 Fabricated 60 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1	(190)	a
60 Degree Elbow	SDR9 Fabricated 60 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
60 Degree Elbow	SDR7.4 Fabricated 60 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
1-90 Degree Elbow	SDR11 Fabricated 1-90 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1	(190)	a
1-90 Degree Elbow	SDR9 Fabricated 1-90 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
1-90 Degree Elbow	SDR7.4 Fabricated 1-90 Degree Elbow, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
90 Degree Elbow	SDR11 Fabricated 90 Degree Elbow, 4 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	13.1	(190)	a
90 Degree Elbow	SDR9 Fabricated 90 Degree Elbow, 4 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
90 Degree Elbow	SDR7.4 Fabricated 90 Degree Elbow, 4 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
Equal Tee	SDR11 Fabricated Equal Tee, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1	(190)	a
Equal Tee	SDR9 Fabricated Equal Tee, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
Equal Tee	SDR7.4 Fabricated Equal Tee, 3 Segment	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
90 Degree Elbow	BF 90 Elbow (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
90 Degree Elbow	EF 90 Elbow (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
45 Degree Elbow	BF 45 Elbow (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
45 Degree Elbow	EF 45 Elbow (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
90 Degree Elbow	BF 3 - 90 Elbow (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
90 Degree Elbow	EF 3 - 90 Elbow (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
End Cap	BF End Cap (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
End Cap	EF End Cap (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
Concentric Reducer	BF Concentric Reducer (Molded), DR11	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355, 450x160 to 400, 500x160 to 450, 560x160 to 500, 630x160 to 560	13.1	(190)	a
Concentric Reducer	EF Concentric Reducer (Molded), DR11	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355, 450x160 to 400, 500x160 to 450, 560x160 to 500, 630x160 to 560	13.1	(190)	a
Eccentric Reducer	BF Eccentric Reducer (Molded), DR11	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355, 450x160 to 400, 500x160 to 450, 560x160 to 500, 630x160 to 560	13.1	(190)	a

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
Eccentric Reducer	EF Eccentric Reducer (Molded), DR11	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355, 450x160 to 400, 500x160 to 450, 560x160 to 500, 630x160 to 560	13.1	(190)	a
Coupler	EF Coupler, DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500	13.1	(190)	a
Equal Tee	BF Equal Tee (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500	13.1	(190)	a
Equal Tee	EF Equal Tee (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500	13.1	(190)	a
Cross (Molded)	BF Cross (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
Cross (Molded)	EF Cross (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
Reducing Tee	BF Reducing Tee (Molded), DR11	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355, 450x160 to 400, 500x160 to 450, 560x160 to 500, 630x160 to 560	13.1	(190)	a
Reducing Tee	EF Reducing Tee (Molded), DR11	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355, 450x160 to 400, 500x160 to 450, 560x160 to 500, 630x160 to 560	13.1	(190)	a
Flange Adaptor	BF Flange Adaptor (Molded), DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
Elbow (Molded)	BF 90 Elbow (Molded), DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Elbow (Molded)	EF 90 Elbow (Molded), DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Elbow (Molded)	BF 45 Elbow (Molded), DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Elbow (Molded)	EF 45 Elbow (Molded), DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Elbow (Molded)	BF 3 - 90 Elbow (Molded), DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
Elbow (Molded)	EF 3 - 90 Elbow (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
End Cap	BF End Cap (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
End Cap	EF End Cap (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Concentric Reducer	BF Concentric Reducer (Molded), DR9	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	16.2	(235)	a
Concentric Reducer	EF Concentric Reducer (Molded), DR9	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	16.2	(235)	a
Eccentric Reducer	BF Eccentric Reducer (Molded), DR9	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	16.2	(235)	a
Eccentric Reducer	EF Eccentric Reducer (Molded), DR9	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	16.2	(235)	a
Coupler	EF Coupler, DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Equal Tee	BF Equal Tee (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Equal Tee	EF Equal Tee (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Cross (Molded)	BF Cross (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Cross (Molded)	EF Cross (Molded), DR9	50, 63, 75, 90, 110, 125,140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
Reducing Tee	BF Reducing Tee (Molded), DR9	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	16.2	(235)	a

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
Reducing Tee	EF Reducing Tee (Molded), DR9	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	16.2	(235)	a
Flange Adaptor	BF Flange Adaptor (Molded), DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
End Cap	BF End Cap (Molded), DR7.4	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20	(290)	a
End Cap	EF End Cap (Molded), DR7.4	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20	(290)	a
Concentric Reducer	BF Concentric Reducer (Molded), DR7.4	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	20	(290)	a
Concentric Reducer	EF Concentric Reducer (Molded), DR7.4	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	20	(290)	a
Eccentric Reducer	BF Eccentric Reducer (Molded), DR7.4	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	20	(290)	a
Eccentric Reducer	EF Eccentric Reducer (Molded), DR7.4	50x20 to 40, 63x20 to 50, 75x20 to 63, 90x32 to 75, 110x50 to 90, 125x50 to 110, 140x63 to 125, 160x63 to 140, 180x63 to 140, 200x63 to 160, 225x90 to 200, 250x75 to 225, 280x90 to 250, 315x90 to 280, 355x110 to 315, 400x160 to 355	20	(290)	a
Flange Adaptor	BF Flange Adaptor (Molded), DR7.4	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20	(290)	a
Backing Ring	Backing Ring, Steel, DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	
Backing Ring	Backing Ring, Steel, DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	
Flange Adapter	BF Flange Adapter (Machined) DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	13.1	(190)	a
Flange Adapter	BF Flange Adapter (Machined) DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2	(235)	a
End Cap	End Cap (Machined) DR11	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	13.1	(190)	a

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
End Cap	End Cap (Machined) DR9	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	16.2	(235)	a
End Cap	End Cap (Machined) DR7.4	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630	20	(290)	a
Concentric Reducer	BF Concentric Reducer (Machined) DR11	63x50, 63x40, 63x32, 75x63, 75x50, 75x40, 75x32, 90x75, 90x63, 90x50, 110x90, 110x75, 110x63, 110x50, 125x110, 125x90, 125x75, 125x63, 140x125, 140x110, 140x90, 140x75, 160x140, 160x125, 160x110, 160x90, 180x160, 180x140, 180x125, 180x110, 180x90, 200x180, 200x160, 200x140, 225x200, 225x180, 225x160, 225x140, 250x225, 250x200, 250x180, 250x160, 280x250, 280x225, 280x200, 280x180, 315x280, 315x250, 315x225, 315x200, 355x315, 355x280, 355x250, 355x225, 400x355, 400x315, 400x280, 400x250, 400x225, 400x200, 400x160	13.1	(190)	a
Concentric Reducer	BF Concentric Reducer (Machined) DR9	63x50, 63x40, 63x32, 75x63, 75x50, 75x40, 75x32, 90x75, 90x63, 90x50, 110x90, 110x75, 110x63, 110x50, 125x110, 125x90, 125x75, 125x63, 140x125, 140x110, 140x90, 140x75, 160x140, 160x125, 160x110, 160x90, 180x160, 180x140, 180x125, 180x110, 180x90, 200x180, 200x160, 200x140, 225x200, 225x180, 225x160, 225x140, 250x225, 250x200, 250x180, 250x160, 280x250, 280x225, 280x200, 280x180, 315x280, 315x250, 315x225, 315x200, 355x315, 355x280, 355x250, 355x225, 400x355, 400x315, 400x280, 400x250, 400x225, 400x200, 400x160	16.2	(235)	a
Transition Fittings	BF Transition Fittings DR11	50, 63, 75, 90, 110	13.1	(190)	
Transition Fittings	EF Transition Fittings DR11	50, 63, 75, 90, 110	13.1	(190)	
Transition Fittings	BF Transition Fittings DR9	50, 63, 75, 90, 110	16.2	(230)	
Transition Fittings	EF Transition Fittings DR9	50, 63, 75, 90, 110	16.2	(230)	
Transition Fittings	BF Transition Fittings DR7.4	50, 63, 75, 90, 110	20	(290)	
Transition Fittings	EF Transition Fittings DR7.4	50, 63, 75, 90, 110	20	(290)	
Branch Saddle Reducing Tee	BF Branch Saddle Reducing Tee, Fabricated DR11	315 x 110 through 160, 355 x 110 through 180, 400 x 110 through 200, 450 x 110 through 225, 500 x 125 through 250, 560 x 160 through 250, 630 x 200 through 315	13.1	(185)	

Model No	Product Description	Nominal Pipe Size, mm	Rated Working Pressure		Remarks
			bar	(psi)	
Branch Saddle Reducing Tee	BF Branch Saddle Reducing Tee, Fabricated DR9	315 x 110 through 160, 355 x 110 through 180, 400 x 110 through 200, 450 x 110 through 225, 500 x 125 through 250, 560 x 160 through 250, 630 x 200 through 315	16.2	(230)	
Branch Saddle Reducing Tee	BF Branch Saddle Reducing Tee, Fabricated DR7.4	315 x 110 through 160, 355 x 110 through 180, 400 x 110 through 200, 450 x 110 through 225, 500 x 125 through 250, 560 x 160 through 250, 630 x 200 through 315	20	(290)	

Remarks:
a. Pipe and fittings may be directly connected together by the butt fusion process. Manufacturer's fusion instructions must be strictly followed for a proper fusion joint. The pipe and fittings may also be jointed to other FM Approved steel flanged pipe and fittings by using the listed flange adapters.

Details

Category	Pipes, Fittings, Joints for Underground (Polyethylene)
Class of Work	1613 - Pipe Ftngs, Undg, PE
Approval Standard	FM 1613 - Polyethylene (PE) Pipe and Fittings for Underground Fire Protection Service
Certification Type	FM Approved
Listing Country	Saudi Arabia

Company

Union Pipes Industry - K.S.A.
Building No. 3654, Industrial Area Phase 1, King Abdullah Economic City, Rabigh 23989, Saudi Arabia
<http://upi-sa.net>