



Certificate of Compliance

This certificate is issued for the following:

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

(see attached table)

Prepared for:

Union Pipes Industry – K.S.A
Industrial Area Phase -1, Building 3654
King Abdullah Economic City,
Rabigh 23989
Saudi Arabia

Manufactured by:

Union Pipes Industry – K.S.A
Industrial Area Phase -1, Building 3654
King Abdullah Economic City,
Rabigh 23989
Saudi Arabia

FM Approvals Class: 1613 (February 2017)

Approval Identification: PR462388

Date Approved: March 16, 2022

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 that reads 'D. B. Fuller'.

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



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Certificate of Compliance

Union Pipes Industry – K.S.A., Polyethylene Pipe and Fittings

Product Designation	Nominal Pipe Size, mm.	Pressure Rating, bar (psi)	Remarks
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
SDR9 Pipe	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2 (235)	a
SDR7.4 Pipe	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20 (290)	a
SDR11 30 deg 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
SDR9 30 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2 (235)	a
SDR7.4 30 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20 (290)	a
SDR11 45 deg 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
SDR9 45 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2 (235)	a
SDR7.4 45 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20 (290)	a
SDR11 60 deg 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
SDR9 60 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2 (235)	a
SDR7.4 60 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20 (290)	a
SDR11 1-90 deg 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
SDR9 1-90 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2 (235)	a
SDR7.4 1-90 deg Elbow (3 segment)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20 (290)	a
SDR11 Equal Tee, 3 seg.	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800	13.1 (190)	a
SDR9 Equal Tee, 3 seg.	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	16.2 (235)	a



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<i>Product Designation</i>	<i>Nominal Pipe Size, mm.</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
SDR7.4 Equal Tee, 3 seg.	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400	20 (290)	a

Remarks:

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



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