

Certificate of Compliance

Certificate Number:

EX28637

Report Reference:

EX28637-2021-07-22

Issue Date:

2024-01-22

Issued to:

**RELIABLE AUTOMATIC SPRINKLER CO. INC.
1470 Smith Grove Rd.
Liberty, SC 29657 USA**

This certificate confirms that representative samples of:

Fittings, Rubber Gasketed
See addendum for model information

Has been evaluated by UL LLC and/or ULC Inc. in accordance with Standard(s) for Safety:

**ANSI/CAN/UL 213 – Rubber Gasketed Fittings
for Fire Protection Service**

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark and/or ULC Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark and/or ULC Mark.

Only those products bearing the UL Mark and/or ULC Mark should be considered as being UL Certified and/or ULC Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark and/or ULC Certification Mark on the product.



David Piecuch
UL Mark Certification Program Owner
UL LLC



Gunsimar Paintal
ULC Mark Certification Program Manager
Underwriters Laboratories of Canada Inc.

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
RGD2	Cut, Rolled	40	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
RGD2	Cut, Rolled	GB/T3091	2-1/2 (76.1 mm), 4-1/4OD (108mm), 5 (139.7 mm), 6-1/4OD (159mm)	300
RGD2	Cut, Rolled	GB/T3092	6 (165 mm)	300
RGD2	Rolled, Cut	JIS G3452, JIS G3454	216.3mm, 267.4mm, 318.5mm	300

Angle Pad Rigid Coupling, Standard and Flush Gap Gasket (for use with grooved end pipe)

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
RGD1	Rolled	10	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10	300
RGD1	Cut, Rolled	40	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
RGD1	Rolled	GB/T3091	3 OD (76.1 mm), 5-1/2 OD (139.7 mm), 6-1/2 OD (165.1 mm)	300
RGD1	Rolled	Fire-Flo Schedule 7	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
RGD1	Rolled	MF	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6	300
RGD1	Rolled	ED	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
RGD1	Rolled	HF	2, 2-1/2, 3, 4	300

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Flexible Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
FLX1	Cut, Rolled	40	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
FLX1	Cut, Rolled	GB/T3091	2-1/2 (76.1 mm), 4-1/4OD (108mm), 5 (139.7 mm), 6-1/4OD (159mm)	300
FLX1	Cut, Rolled	GB/T3092	6 (165 mm)	300
FLX1	Rolled	Fire-Flo Schedule 7	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
FLX1	Rolled	10	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
FLX1	Rolled	MF	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6	300
FLX1	Rolled	ED	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
FLX1	Rolled	HF	2, 2-1/2, 3, 4	300
FLX1	Rolled	10	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6, 8, 10	300
FLX1	Rolled	10	2, 2-1/2, 3, 4, 6, 8, 10	300
FLX1	Rolled	ASME B36.10M-10	12	300

Fast-connected coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
QRS1	Rolled	Fire-Flo Schedule 7	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
QRS1	Rolled	10, 40	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10	300
QRS1	Rolled, Cut	T 3091	76.1mm, 139.7mm, 165.1mm	300
QRS1	Rolled, cut	EN 10217	76.1mm (2.9mm), 139.7mm (3.6mm)	300
QRS1	Rolled, cut	EN 10220	76.1mm (2.6mm), 139.7mm (6.3mm)	300
QRS1	Rolled, cut	EN 10255	165.1mm (5.0mm)	300
QRS1	Rolled, cut	JIS 3452	76.3mm, 139.8mm, 165.2mm, 216.3mm, 267.4mm, 318.5mm	300
QRS1	Rolled, Cut	G3454 - 30	216.3mm, 267.4mm, 318.5mm	300
QRS1	Rolled, Cut	ASME B36.10M-10	12	300

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Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
QRS1	Rolled, Cut	40	12	300
QRS1	Rolled	MF	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6	300
QRS1	Rolled	ED	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
QRS1	Rolled	HF	2, 2-1/2, 3, 4	300

Reducing Coupling

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
RCD1	Cut, Rolled	40	2 x 1-1/4, 1-1/2, 2-1/2 x 2, 3 x 2, 3 x 2-1/2, 4 x 2, 4 x 2-1/2, 4 x 3, 6 x 2-1/2, 6 x 3, 6 x 4, 8 x 4, 6	300
RCD1	Cut, Rolled	40 x GB/T3091	3 x 76.1 mm	300
RCD1	Cut, Rolled	40 x GB/T3091	4 x 76.1 mm, 6 x 76.1mm	300
RCD1	Cut, Rolled	GB/T3091 x 40	76.1 mm x 2, 139.7mm x 4, 165.1mm x 76.1mm, 4	300
RCD1	Rolled	10	1-1/2 x 1-1/4; 2 x 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2; 3 x 1, 1-1/4, 1-1/2, 2, 2-1/2; 5 x 4; 6 x 4, 5, 6-1/2 OD (165.1 mm); 8 x 4, 6	300
RCD1	Cut, Rolled	40	1-1/2 x 1-1/4; 2-1/2 x 1, 1-1/4, 1-1/2; 3 x 1, 1-1/4, 1-1/2;	300

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Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
			5 x 4; 6 x 5, 6-1/2 OD (165.1 mm)	
RCD1	Cut, Rolled	GB/T3091	3 OD (76.1 mm) x 1-1/2, 2-1/2; 6-1/2 OD (165.1 mm) x 3	300
RCD1	Rolled	MF	1-1/2 x 1-1/4; 2 x 1-1/4, 1-1/2; 2-1/2 x 1-1/4, 1-1/2, 2; 3 x 1-1/4, 1-1/2, 2, 2-1/2; 4 x 2, 2-1/2, 3; 6 x 2-1/2, 3, 4; 8 x 6	300
RCD1	Rolled	ED	1-1/2 x 1-1/4; 2 x 1-1/4, 1-1/2; 2-1/2 x 1-1/4, 1-1/2, 2; 3 x 1-1/4, 1-1/2, 2, 2-1/2; 4 x 2, 2-1/2, 3; 6 x 2-1/2, 3, 4; 8 x 6	300
RCD1	Rolled	HF	2 x 1-1/2; 2-1/2 x 1-1/4, 1-1/2, 2; 3 x 1-1/4, 1-1/2, 2, 2-1/2; 4 x 2, 2-1/2, 3; 6 x 2-1/2, 3, 4; 8 x 6	300

Flange adapter

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
FA1	Cut, Rolled	10, 40	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
FA2	Cut, Rolled	10, 40	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300
FA2	Cut, Rolled	4200	76.1/4.5mm, 108/4mm, 133/5.4mm, 139.7/5mm, 159/4mm, 165.1/6.3mm	300

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Side outlet

Model	Groove Type	Pipe	Size (in.)	Rated Pressure (psig)
MTT1	Threaded	10, 40	1 x 1/2	300
MTT1	Threaded	10	1-1/4 x 1/2, 3/4, 1	300
MTT1	Threaded	10	1-1/2 x 1/2, 3/4, 1	300
MTT1	Threaded	10, 40	2 x 1/2, 3/4, 1	300
MTT1	Threaded	10, 40	2-1/2 x 1/2, 3/4, 1	300
MTT1	Threaded	GB/T3091	76.1 mm x 1/2, 3/4, 1	300
MTT1	Threaded	10, 40	3 x 1	300
041	Threaded	10, 40	1x1/2	300
041	Threaded	10, 40	1x3/4	300
041	Threaded	10, 40	1-1/4x1/2	300
041	Threaded	10, 40	1-1/4x3/4	300
041	Threaded	10, 40	1-1/4x1	300
041	Threaded	10, 40	1-1/2x1/2	300
041	Threaded	10, 40	1-1/2x3/4	300
041	Threaded	10, 40	1-1/2x1	300
041	Threaded	10, 40	2x1/2	300
041	Threaded	10, 40	2x3/4	300
041	Threaded	10, 40	2x1	300
041	Threaded	10, 40	2-1/2x1/2	300
041	Threaded	10, 40	2-1/2x3/4	300
041	Threaded	10, 40	2-1/2x1	300
041	Threaded	GB/T3091	3ODx1/2	300
041	Threaded	GB/T3091	3ODx3/4	300
041	Threaded	GB/T3091	3ODx1	300
041	Threaded	10, 40	3x1	300
MTG1	Grooved	10, 40	2 x 1, 1-1/4, 1-1/2; 2-1/2 x 1, 1-1/4, 1-1/2, 2; 3 x 1, 1-1/4, 1-1/2, 2; 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3; 5 x 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3; 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3, 4;	300

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			8 x 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3, 4	
MTG1	Grooved	T3091	76.1mm x 1, 1-1/4, 1-1/2, 2; 108mm x 1-1/4, 1-1/2, 2, 3OD; 133mm x 1-1/4, 1-1/2, 2; 139.7mm x 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3; 159mm x 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3; 165.1mm x 1-1/4, 1-1/2, 2, 2-1/2, 3OD, 3, 4	300
MTT2	Threaded	Sch10, Sch40	2 x 1/2, 3/4, 1, 1-1/4, 1-1/2; 2-1/2 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2; 3 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2; 4 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3; 5 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3; 6 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4; 8 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300
MTT2	Threaded	T3091	76.1mm x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2; 108mm x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2; 133mm x 1, 1-1/4, 1-1/2, 2; 139.7mm x 1, 1-1/4, 1-1/2, 2, 2-1/2; 159mm x 1, 1-1/4, 1-1/2, 2, 3; 165.1mm x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300

The fittings are suitable for use in dry pipe systems for temperatures to -40 F.

Models, MTT2, in the 1/2, 3/4, and 1 in. nominal outlet size is intended for direct connection to sprinklers.

Models, MTG1, in the 1 in. and larger nominal outlet sizes are intended for connection to system piping

Models MTT1 and, in the 1/2, 3/4, and 1 in. nominal outlet size is intended for direct connection to sprinklers.

Models MTT1, QRS1 and, in the 1 in. and larger nominal outlet sizes are intended for connection to system piping.

10 refers to Schedule 10 steel pipe in accordance with NFPA 13.

40 refers to Schedule 40 steel pipe in accordance with NFPA 13.

T3091 refers to steel pipe manufactured in accordance with GB/T3091.

GB/T3091 refers to steel pipe manufactured in accordance with GB/T3091-2008.

GB/T3092 refers to steel pipe manufactured in accordance with GB/T3092.

GB/T8163 refers to steel pipe manufactured in accordance with GB/T8163.

Fire-Flo Schedule 7 refers to Youngstown Tube Schedule 7 pipes.

JIS3452 refers to steel pipe manufactured in accordance with JIS G 3452

JIS3454 refers to schedule 40 steel pipe manufactured in accordance with JIS G 3455:2005, Sch 40.

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EN 10217 refers to steel pipe manufactured in accordance with BS EN 10217.

EN 10220 refers to steel pipe manufactured in accordance with DIN EN 10220.

EN 10225 refers to steel pipe manufactured in accordance with DIN EN 10225.

4200 refers to ISO4200 Group 1 steel pipe.

MF refers to Listed Mega-Flow steel pipe manufactured by Wheatland Tube Co.

ED refers to Listed EDDY FLOW steel pipe manufactured by Bull Moose Tube Co.

HF refer Listed Nucor Hydroflow steel pipe manufactured by NUCOR TUBULAR PRODUCTS INC.

ASME B36.10M-10 refers to steel pipe manufactured in accordance with ASME B36.10M, Schedule 10.

G3454 - 30 refers to schedule 30 steel pipes in accordance with JIS G3454.