



Certificate of Compliance

This certificate is issued for the following:

Sprinkler Pipe Assemblies (see attached product table)

Prepared for:

Tubasys S.L.
Poligono Industrial de Carballo, Vial C,
Parcelas G4 y G5,
15105 Carballo – La Coruna, Spain

Manufactured by:

Tubasys S.L.
Poligono Industrial de Carballo, Vial C,
Parcelas G4 y G5,
15105 Carballo – La Coruna, Spain

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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.



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A handwritten signature in dark red ink, appearing to read "D.B. Fuller".

David B. Fuller
VP, Manager of Fire Protection
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Sprinkler Pipe Assemblies

<i>Nominal Run Pipe Size, in.</i>	<i>Outlet Connection</i>	<i>Nominal Outlet Size, in.</i>	<i>Rated Working Pressure, psi (kPa)</i>	<i>Remarks</i>
1	Threaded	1/2, 3/4	300 (2070)	a, b, c, d, e, f, g
1 1/4	Threaded	1/2, 3/4, 1	300 (2070)	a, b, c, d, e, f, g
1 1/2	Threaded	1/2, 3/4, 1, 1-1/4	300 (2070)	a, b, c, d, e, f, g
2	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2	300 (2070)	a, b, c, d, e, f, g
73.02 mm	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	g
76.1mm	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	a, b, c, d, e, f
3	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	a, b, c, d, e, f, g
4	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	a, b, c, d, e, f, g
139.7mm	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	a, b, c, d, e, f
141.30 mm	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	g
165.1 mm	Threaded	1/2, 3/4, 1	300 (2070)	a, d, e, f
6	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	b, c, d, e, f, g
8	Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	300 (2070)	b, c, d, e, f, g
1 1/4	Grooved End	1	300 (2070)	a, b, c, f, g
1 1/2	Grooved End	1, 1 1/4	300 (2070)	a, b, c, f, g
2	Grooved End	1, 1 1/4, 1 1/2	300 (2070)	a, b, c, f, g



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<i>Nominal Run Pipe Size, in.</i>	<i>Outlet Connection</i>	<i>Nominal Outlet Size, in.</i>	<i>Rated Working Pressure, psi (kPa)</i>	<i>Remarks</i>
73.02 mm	Grooved End	1, 1 1/4, 1 1/2, 2	300 (2070)	g
76.1mm	Grooved End	1, 1 1/4, 1 1/2, 2	300 (2070)	a, b, c, f
3	Grooved End	1, 1 1/4, 1 1/2, 2, 2-1/2	300 (2070)	a, b, c, f, g
3	Grooved End	76.1mm	300 (2070)	a, b, f, g
4	Grooved End	1, 1 1/4, 1 1/2, 2, 2-1/2, 3	300 (2070)	a, b, c, f, g
4	Grooved End	76.1mm	300 (2070)	a, b, f, g
139.7mm	Grooved End	1, 1 1/4, 1 1/2, 2, 3, 4	300 (2070)	a, b, c, f
139.7mm	Grooved End	76.1mm	300 (2070)	a, f
141.30 mm	Grooved End	1, 1 1/4, 1 1/2, 2, 3, 4	300 (2070)	a, b, c, f, g
141.30 mm	Grooved End	76.1mm	300 (2070)	a, f, g
165.1mm	Grooved End	1, 1 1/4, 1 1/2, 2, 3, 4	300 (2070)	a, f
165.1mm	Grooved End	76.1mm	300 (2070)	a, f
6	Grooved End	1, 1 1/4, 1 1/2, 2, 2-1/2, 3, 4	300 (2070)	b, c, f, g
6	Grooved End	76.1mm	300 (2070)	b, c, f, g
8	Grooved End	1, 1 1/4, 1 1/2, 2, 2-1/2, 3, 4	300 (2070)	b, c, f, g
8	Grooved End	76.1mm	300 (2070)	b, c, f, g



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Remarks:

a.	Approved when manufactured using the following EN10255 pipe dimensions:	
	Outside Diameter (OD), mm	Wall Thickness, mm
	33.7, 42.4	2.6, 2.9, 3.2
	48.3	2.9, 3.2
	60.3	2.9, 3.2, 3.6
	76.1	3.2, 3.6
	88.9	3.2, 3.6, 4.0
	114.3	3.6, 4.0, 4.5
	139.7	3.7, 4.0, 4.5, 5.0
	165.1	4.0, 4.5, 5.0
b.	Approved when manufactured using the following EN 10216-1 pipe dimensions:	
	Outside Diameter (OD), mm	Wall Thickness, mm
	33.7, 42.4, 48.3	2.6
	60.3, 76.1	2.9
	88.9	3.2
	114.3	3.6
	139.7	4
	168.3	4.5, 5.0
	219.1	6.3
c.	Approved when manufactured using the following EN 10217-1 pipe dimensions:	
	Outside Diameter (OD), mm	Wall Thickness, mm
	33.7, 42.4, 48.3, 60.3	2.3, 2.6
	76.1	2.6, 2.9
	88.9	2.9, 3.2
	114.3	3.2, 3.6
	139.7	3.6, 4.0, 4.5
	168.3	4.0, 4.5
	219.1	4.5, 5.0, 6.3
d.	Threaded outlets are considered FM Approved when supplied with NPT taper pipe threads conforming to ANSI/ASME B1.20.1.	



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e.	Threaded outlets are considered FM Approved when supplied with BSP pipe threads conforming to EN 12226-1 (BS 21)	
f.	Maximum Run Pipe length of 12 meters	
g.	Approved when manufactured using the following ASTM A-106-A53-API 5L steel pipes dimensions:	
	Outside Diameter (OD), mm	Wall Thickness, mm
	33.40	2.77, 3.38, 4.55, 6.35, 9.10
	42.16	2.77, 3.56, 4.85, 6.35, 9.70
	48.26	2.77, 3.68, 5.08, 7.14, 10.16
	60.32	2.77, 3.91, 5.54, 8.73, 11.07
	73.02	3.05, 5.16, 7.01, 9.52, 14.02
	88.90	3.05, 4.78, 5.49, 7.62, 11.13, 15.24
	114.30	6.02, 8.56, 11.13, 13.49, 17.12
	141.30	6.55, 9.52, 12.70, 15.87, 19.05
	168.27	7.11, 10.97, 14.29, 18.26, 21.95
	219.07	6.35, 7.04, 8.18, 10.32, 12.70, 15.08, 18.26, 20.62, 23.02, 22.22



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