

Pipes/Fittings/Couplings | Aboveground Pipe and Fittings | **Steel Pipe, Schedule 40**

Schedule 40^{a,c,d,m,n}

Details

Category	Steel Pipe, Schedule 40
Class of Work	1630 - Steel Pipe Spklr Sys Serv
Approval Standard	FM 1630 - Steel Pipe for Automatic Fire Sprinkler Systems
Certification Type	FM Approved
Nominal Pipe Size, mm(in.)	1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 5, 6, 8
Rated Working Pressure, psi	300
Rated Working Pressure, kPa	2070
Listing Country	United Arab Emirates
Footnote Reference	a -FM Approved for use with FM Approved pipe couplings on rolled or cut grooves.
	c -FM Approved for use in welded systems when supplied with standard bevel on ends.
	d -When hot dip galvanized by factory, the sprinkler pipe is FM Approved for dry pipe systems.

Company

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FM Approvals

	m -FM Approved for use in all steel sprinkler systems composed of uncoated or coated steel pipe.
	n -FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.



Additional Info

Automatic Sprinkler Systems

Pipes and Fittings for Aboveground

Steel Pipe

This pipe is FM Approved for use in automatic sprinkler systems. Unless otherwise noted in individual listings, pressure rating is 175 psi (1205 kPa).

In addition to certain specific FM Approvals requirements, Approval is based upon conformance to American Society for Testing and Materials (ASTM) Standards. ASTM A-53 and A-135 are used for Schedule 40 pipe (and Schedule 30 in larger sizes) and ASTM A-135 for Schedule 10 (0.188 in. (5 mm) wall pipe in larger sizes). Pipe meeting ASTM A-795 is also approvable.

Generally, joining by threading or cut-grooving is limited to pipe of the "standard-weight" Schedules, 30 or 40. Schedule 10 pipe is usually joined by roll-grooving. "Lightwall" pipe is non-threadable, is close to Schedule 5 in size, but is non-standard in wall thickness. "Thinwall" pipe is threadable, is close to Schedule 10 in size, but is also non-standard in wall thickness. The life expectancy of steel piping products varies widely depending on characteristics such as the water conditions and pipe material, as well as wall thickness. Such factors should be considered when selecting piping products. Approval of any piping product is not confirmation of equivalent field longevity to any pipe schedule or material identified in this introductory section.

All FM Approved pipe is suitable for joining by welding or FM Approved plain end fittings where so listed. When welding pipe products, close adherence to recognized welding procedures and the use of welders certified under these procedures shall be followed. Pipe of other schedules or unusual joint design may be FM Approved if shown to be of comparable performance to the traditional products. Approval of individual pipe fittings and couplings may limit them to use with specific schedules of pipe or at specific pressure ratings. Use caution to ensure that a given pipe fitting or coupling is FM Approved for use on a given schedule of pipe and that the rated working pressures are compatible. In all cases, the installation instructions of both the pipe manufacturer and the pipe fitting or coupling manufacturer should be observed.

Please see individual listings for acceptability when used in hybrid sprinkler systems composed of steel and plastic piping.

Pressure ratings of completed sprinkler systems are determined by the lowest pressure rated component in the system.

The following notations are used within the listings for Steel Pipe, and have been shown here for reference if searching for a particular feature on a given product.

Note	Description
a.	FM Approved for use with FM Approved pipe couplings on rolled or cut grooves.
b.	FM Approved for use with FM Approved pipe fittings when threaded.
c.	FM Approved for use in welded systems when supplied with standard bevel on ends.
d.	When hot dip galvanized by factory, the sprinkler pipe is FM Approved for dry systems.

Note	Description
e.	Any FM Approved pipe coupling or fitting suitable for use with Schedule 10 pipe may be used with this product at the lower rated pressure of the pipe or the fitting.
f.	This product is not FM Approved for threaded connections.
g.	FM Approved for use with FM Approved plain-end fittings.
h.	FM Approved for use when the listings of the couplings or fittings make specific mention of their suitability with this sprinkler pipe.
i.	FM Approved with a 12 ft (3.6m) maximum hanger spacing.
j.	3/4in (20mm) nominal size limited for use in valve trim.
k.	FM Approved for use in dry sprinkler systems.
l.	FM Approved for use when joined by FM Approved "Press-Fit" couplings.
m.	FM Approved for use in all steel sprinkler systems when uncoated or coated (see individual listings for specific coatings).
n.	FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.
o.	FM Approved for use in hybrid sprinkler systems composed of coated steel and plastic piping (see individual listings for specific coatings and plastic piping).
p.	Manufactured out of ASTM A53 Grade B steel as an alternate material.
r.	Manufactured out of ASTM A135 Grades A & B steel as an alternate material.
s.	Manufactured out of ASTM A795 Grades A & B steel as an alternate material.
t.	Manufactured out of ASTM A135 Grade A steel.
u.	Manufactured out of ASTM A795 Grade A steel as an alternate material.

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