



TOOL BOX 010- PIPE SIZES –HOSE REELS / HYDRANTS

Thinking of installing a new hose reel for your Client.

To do this you must understand that the feeder pipe sizes differ depending on the amount of hose reels running off the feeder pipe. It is not just the 25mm Copper / Steel piping leading to the Hose reel itself.

You will need to consult SANS 10400 Part W – to establish the required sizes involved.

Feeder Pipe 25mm for 1 to 2 hose Reels

35mm for 3

40mm for 4 to 5

50mm for 6+

Feeder Pipe for hydrants on a ring main is 100mm, and hydrant and sprinkler system combination is 100mm. (feeder pipe will not be less than 75mm)

Delivery from a hose reel is a minimum of 0.5ltrs per second at no less than 300kpa (3 bar)

Delivery from a Hydrant is a minimum of 20ltrs per second at no less than 300kpa

All pipework will have a minimum pressure rating of 1200kpa.

Simple Yes

Wrong:

- a. To install additional water born equipment you will have to consult the Fire Department. They will intern request a Rational Design.
- b. There is a lot more involved than sticking additional equipment into a building. Such as elevations, water pressure, metres above or below sea level, water static pressure, pipe friction etc.
- c. Rational design: unless you are a professional Engineer or Technologist you cannot interfere with the current hose reel / hydrant systems in a building.
- d. Should you add an additional Hose reel or Hydrant will affect the performance of the presently installed equipment?

Summery:

If your Client wants additional water born equipment consult an expert, and do not thumb suck advice.

These are some examples I have come across where people who do not have the expertise to perform the task, and have created problems.

1. Hose Reel installed into the line from a high pressure hot water geezer – Had no pressure but water was worm.
2. Standard plumbing system connect to the fire sprinkler system – People complaining that water was dirty
3. Numerous hose reel CP valves fitted the wrong way around
4. Hose reels plumbed into the domestic supply line
5. 6 x Hose reels fitted to a 25mm delivery line



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6. Numerous hose reels fitted with plastic piping – inside buildings

Presented By: Name: _____	Date _____	Signature _____
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