



INSTALLATION INSTRUCTIONS FOR PYROGUARD FIRE HOSE REELS - SANS 543

1. Safety warning

Fire hose reels must not to be used on electrical fires.

2. Locating and mounting of fire hose reel

2.1. SANS 10105-2: 4.1.2

Fire hose reels and above-ground hydrants shall be conspicuously located where they will be readily accessible and immediately available in the event of fire. They shall preferably be located along normal paths of travel, including near exits from areas, but in such a way that they shall not cause obstruction. Their positions shall be identified by means of signs complying with the provisions of SANS 1186-1.

2.2. SANS 10400-T: 4.34.3

Any hose reel so installed shall be positioned to ensure that the end of the hose will reach any point in the area to be protected.

2.3. SANS 10400-W: 4.6.1a

A service pipe supplying water to hose reel installation shall be not less than 25mm.

3. Specifications for Fire Hose Reel Complete

Item Number	Component	Description	Total Quantity
1	Front Plate	570mm diameter, 1mm mild steel disc forged, phosphated and finished in a red epoxy powder coating	1
2	Back Plate	570mm diameter, 1mm mild steel disc forged, phosphated and finished in a red epoxy powder coating	1
3	Hub Spacers	160mm wide cadmium plated curved spacer	3
4, 5, 6	Bolts and Nuts and Washers	M8 * 12 plated hex bolt and nut with M8 Bright nickel plated washer	12
7	Back Plate Bush	White nylon bush / grommet with 25mm ID	1
8, 9	Bolts and Nuts	M4 * 10 plated cheese head screw & hex nut	3
10	Waterway Assembly	Brass swivel joint with cadmium plated goose neck	1
11	Back Frame – Bottom	Mild steel back frame with bottom mounting holes, 360mm spacing between holes. Steel frame phosphated and finished in a red epoxy powder coating	1
12	Back frame – Top	Mild steel back frame with top mounting holes, 230mm spacing between holes. Steel frame phosphated and finished in a red epoxy powder coating	
13	Back Frame – Stand Pipe	25mm threaded mild steel pipe phosphated and finished in a red epoxy powder coating	
14	Draw Shackle	Mild steel nickel plated shackle with PVC run out guide	1
15	Instruction Label	Printed instruction label	1
16	PVC hose – (not on diagram)	Red 20mm diameter * 30meter length SANS 1086 approved PVC hose	1
17	Nozzle – (not on diagram)	19mm red plastic nozzle with spray, jet and shut-off function	1
18	CP Valve – (not on diagram)	Chromium plated stop cock with 25mm BSP inlet and outlet	1
19	CP hand wheel – (not on diagram)	Chromium plated hand wheel with M4 * 10 lock screw	1
20	Clamp – (not on diagram)	G12 plated mild steel hose clamp (for securing hose to waterway)	1
21	Ferrule – (not on diagram)	Cadmium plated 25mm ID ferrule (for securing hose to plastic nozzle)	1

4. Installation of fire hose reel

- 4.1. Water supply line to the hose reel must be 25mm placed vertically to one meter above floor / ground level with a male threaded end.
- 4.2. Screw a stop cock/ CP-valve on to the hose reel stand pipe with the hand wheel parallel to lower fixing bracket facing to the front away from wall or mounting structure. Into lower end of the stop cock screw a galvanized barrel nipple and threaded union, split the union and screw the lower half onto the water supply line.
- 4.3. Place the hose reel stand pipe on to the supply line, mate the union and tighten the compression gland nut. Use a spirit level to make sure the stand pipe is vertical, mark the four mounting holes, split the union and remove the back frame.
- 4.4. Drill the four fixing holes, place the hose reel stand pipe onto the supply line and mate the union, insert the four fixing bolts into the holes and tighten. In future to remove the hose reel undo the union gland nut and loosen the fixing bolts two turns then lift off the hose reel.

5. Commissioning of fire hose reel

- 5.1. Unroll hose, isolate the nozzle and open the CP-valve. Check for leaks and where necessary tighten.
- 5.2. Close CP-valve and open nozzle and re-roll hose draining the excess water from hose.
- 5.3. Close the nozzle and secure in position and seal.
- 5.4. Seal CP-valve with sealing wire.
- 5.5. Fire hose reels must be maintained in accordance with the requirements of SANS 1475-2.