

Table 9.6: Wet Riser System Requirements

ITEMS	REQUIREMENTS
10. NOZZLE	i. The nozzle shall comply with Table 9.3.17 .
11. SIGNAGE	i. The hose Cabinet shall have signage both in Arabic and English, clearly identifying the class and type of the hose connection as “Fire Hose Reel/Rack System”
12. BREECHING INLET	i. A 4-way breeching inlet connection having 150 mm diameter flanged outlet with 4 no's of 65 mm diameter instantaneous male coupling inlets shall be provided. ii. Breeching inlets shall also comply with requirements of Table 9.3.13 .
13. ZONING OF WET RISERS (MULTI-LEVELS)	i. The maximum pressure anywhere in the wet riser system shall not exceed 24 bar with a fire pump set to cut-off at 140% of the rated operational pressure. ii. Where multiple wet risers are provided in other than Lowrise buildings, they shall be interconnected at the highest level they are serving. iii. The vertical wet riser system pressure exceeds 12 bar with a fire pump set to cut-off at 140% of the rated operational pressure., or when most remote landing valve is located at a height 45 m from the fire pump location, the risers shall be zoned into “High Zone” and “Low Zone” with looping as shown in Figure 9.8.B . iv. When the vertical wet riser system pressure exceeds 24 bar with fire pump set to cut-off at 140% of the rated operational pressure., or when the most remote landing valve is located at a height of 90 m from the fire pump location, the second set of fire pumps and dedicated water tanks shall be provided to feed such wet risers from that level. See Figure 9.9.A. and Figure 9.9.B. for illustration.
14. TEST RISERS AND DRAINS	i. Each wet riser shall have drainage arrangement, at least on every alternative floors. ii. Drain risers shall be fitted with 65 mm diameter instantaneous male coupling with a built-in spring loaded non return valve with a blank cap beside each landing valve outlet to facilitate the landing valve test during the routine testing. iii. The drain riser shall be terminated back to the fire water tank or to open drain. iv. Each wet riser shall be provided with drain arrangements having not less than 50 mm diameter on the down stream side of the riser isolation valve and where ever the riser pipe changes its direction which leaves water trapped in those sections.
15. FIRE WATER TANK.	i. Fire water tanks shall comply with Table 9.3.3. , with duration as per Section 4 .