LPCB APPROVED
DRY PILLAR FIRE HYDRANTS
An Introduction to NAFFCO

National Fire Fighting and Manufacturing FZCO (NAFFCO) is amongst the world’s largest manufacturers and full solution providers of Fire Fighting equipment, fire protection systems, fire alarm, security systems and safety engineering under one roof.

Dedicated to the science of fire fighting, NAFFCO was established with a vision to be the world’s most recognized Fire Protection Company through quality and development to save lives and properties. Headquartered in Dubai, UAE, NAFFCO has spanned the globe by serving over 108 countries worldwide.

The numerous projects executed by NAFFCO in both the private and government sectors throughout the globe are classic examples of its professional competency. These projects include residential buildings, commercial edifices (e.g. schools, hospitals, malls, sports stadiums, etc.), industrial manufacturing plants, power generation stations, and oil and gas facilities. As a provider of total fire protection systems, NAFFCO undertakes turnkey projects from design, supply, installation, testing and commissioning of various systems like fire detection, fire alarm, fire suppression, and fire fighting systems which our customers find it very convenient to have all their system requirements under one roof provided by NAFFCO.

NAFFCO has been consistently maintaining ISO 9001 Quality Management System certified by UL, BV and LPCB. The company also has got certified for ISO 14001 Environmental Management systems and BS OHSAS 18001 for Occupational safety by UL DQS.

NAFFCO implemented top notch ERP “Oracle” Systems by adopting best business practices to enhance efficiency and transparency by controlling key operations with continuous improvement.

The company’s reputation for quality and reliability is globally acclaimed. Its innovative fire protection and fire fighting products are certified by international bodies like LPCB, BSI, SAI Global, UL and FM. Its product range includes different kinds of fire extinguishers, custom-made fire cabinets, heavy-duty fire hoses and reels, high capacity powerful fire pumps, mobile fire fighting systems including CAF systems, fire-rated doors, fire detection & alarm systems, CCTV, ambulances, extendable mobile hospitals, platform vehicles, rescue vehicles, fire trucks, and most advanced Airport Rescue & Fire Fighting (ARFF) vehicle.

Taking into consideration the increasing market demand for several products and services, NAFFCO expands its venture in the passive fire protection, CCTV, fire alarm, and security systems. Some of the recent expansions include the launching of new manufacturing divisions for fire-rated doors and HOPFE pipes and fittings.

NAFFCO is associated with the globally renowned international companies in the fire protection industry such as Esser, Secutron, Megalights, Evax, Fike, Central Shield, Mueller, Giacomini, RB Pumps, Bombas, Ideal Pumps, Joslyn Pumps, Peerless Pumps and more.

The company is well known for its very strong engineering team that ensures that their innovative designs are based on the standards of the National Fire Protection Association (NFPA). It also has an equally competent and dedicated maintenance team that provides a 24/7 service to ensure the efficiency of the fire protection systems for its clients. NAFFCO offers annual and semi-annual maintenance contracts. Moreover, we also provide after-sales service, spare parts and training.

In recognition to the success of its business growth, NAFFCO has been awarded with the prestigious Mohammed Bin Rashid Al Maktoum Business Award for excellence in exports in 2005 and for excellence in manufacturing in 2006 and 2010. Furthermore, NAFFCO received the Dubai Quality Appreciation in 2008 which bears witness to its constant focus towards business excellence and the quality of services it provides.

NAFFCO’s mission is to empower customer to secure life, property and business by delivering high quality and innovative fire protection solutions and knowledge using world class manufacturing processes through best engineering practice and expand it worldwide.
DRY TYPE PILLAR FIRE HYDRANTS

FEATURES
- LPCB approved
- NAFFCO Fire Hydrants are manufactured to comply BS EN 14384: 2005, BS 1074-1, BS 1074-2 & BS 1074-6 Standards.
- Dry barrel design eliminates damage to the hydrant caused by freezing of the upper part.
- NAFFCO Fire Hydrants are designed for high performance and easy to install, maintain and repair.
- Excellent and proven flow characteristics.
- NAFFCO Fire Hydrant’s with the options of
  - 2 x ½” straight through landing valve with female instantaneous outlet to BS 336.
  - 2 x ½” Female Instantaneous quick coupling adaptor to BS 336.
  - 1 x 4” Male/Female BSRT plumper to BS 336
  - Aluminum Hood cover is provided for protection and misusing.
- Operation threads are corrosion protected and for easy operation.
- NAFFCO Fire Hydrants are high Pressure rating to 16 Bar.
- Drain starts automatically when hydrant is closed.
- Internal epoxy paint system gives high corrosion protection to hydrants.

DESIGN FEATURES

Shell Material:
Spheroidal graphite cast iron.

Obturator
- The design of obturator (base valve) in hydrant is made in such way that it can be replaced at site.
- Material of base valve is high tensile brass.

Resistance to Disinfection Products
Hydrant is compactable against resistance to disinfection products.

Inlet Flanged to BS EN 1092-2

Corrosion Protection
All ferrous components liable to corrosion are prepared and coated as detailed below:

Surface preparation: Each hydrants are shot blasted (inside & outside)

Paint system:
Inside: Barrel inside and rod coated with 3 coat epoxy paint system, 200 microns DFT.
Outside: Outside coating top portion primer coating and red polyurethane coating, 200 microns. Bottom portion outside two coat black bituminous coating, 200 microns.

FIELD OF APPLICATION
- Fire fighting purpose.
- Suitable for non-potable water supply purpose only.
## GENERAL DIMENSIONAL DETAILS

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*Flanged to BS EN 1092-2
** Extended length provided as per customer requirement

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### NFHQC & NHC SERIES

![Diagram of NFHQC & NHC Series](image1)

### NFHV & NHFQ SERIES

![Diagram of NFHV & NHFQ Series](image2)
1. Hydrant should be handled carefully to avoid breakage and damage to flanges. Keep hydrant closed until they are installed.

2. Before installation of hydrants clean piping and elbow of any foreign matter.

3. Locate fire hydrant in accordance with the applicable fire code & to requirements of local fire authority.

4. Unless otherwise required as above, install hydrants away from the curb line at a sufficient distance to avoid damage from or to overhanging vehicles. The pumper outlet nozzle should face the Road side. Make sure that the outlet nozzles are high enough above the ground line for hose attachment and that there are no obstructions to prevent operation.

5. Always install an auxiliary valve between hydrant and the main supply to permit isolation of hydrant for maintenance purposes.

6. In setting up a hydrant, the elbow should be placed on a concrete structure or other solid foundations to prevent settling and strain on hydrant lead joints.

7. The bottom and lower part of the hydrant should be surrounded with crushed stone or coarse gravel so that water released from the hydrant drain valve may escape quickly. The stone filled area should contain a volume of water atleast twice that held by the hydrant barrel.

8. Both crushed stone and earth fill above concrete structure should be tamped to give firm support to the hydrant barrel.

9. After the hydrant is installed and the line as well as the hydrant have been hydrostatically tested, the hydrant should be flushed and then checked for proper drainage.
QUALITY SYSTEM

NAFFCO FZCO is certified to ISO 9001 Quality system by UL DQS Inc, Loss Prevention Certification Board UK & Bureau Veritas. Our manufacturing processes are based on a quality system that ensures the use of raw material confirming to relevant International Standards. Our In process production is monitored by work standards & quality plans confirming to relevant International standards enabling us to deliver quality products.

APPROVALS

NAFFCO has been maintaining ISO 9001 Quality Management system certified by UL, LPCB & BV. Further we have achieved ISO14001 for Environmental Management & BS OHSAS 18001 for occupational safety by UL management systems. We have also achieved product certifications from UL, FM, LPCB, BSI, CE & SAI Global on wide range of products which include Fire Extinguishers, Fire Hose Reels, Centrifugal Fire Pumps, Diesel Engine for driving Fire pumps, Fire doors, Fire Fighting Equipment. UL has authorized NAFFCO asservise center for certifiying signal and fire alarm equipment.

ENGINEERING CAPABILITIES

NAFFCO is backed by a team of professionals who are well qualified and specialized in their respective field viz - Design, Development, Production and Project Implementation. Our investment in applied research and development program concentrates on innovations which meets customer needs.

PRODUCT RANGE

Your most reliable partner in supplying state-of-the-art products and providing high quality services based on International Standards