

رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



Fire Hydrants

Dry Barrel Type (SF-F-06)

Wet Barrel Type (SFD-250-WH)

Dry Barrel Type

Fire Hydrants



- ▶ Meets all applicable parts of ANSI/AWWA C502 standard
- ▶ UL Listed (EX16453) and FM Approved (FM1510)
- ▶ 250 psig working pressure, 400psi testing pressure as per UL-EX 15971
- ▶ 250 psig working pressure, 500 psi test pressure as per FM1510
- ▶ Secured by the stainless steel safety stem coupling, and hydrant prevent traffic damage by pulling out if hit by a vehicle preventing damage to the main valve and stem.
- ▶ Dual bronze drain ways
- ▶ Efficient hydraulic design provides optimum performance and maximum flow.
- ▶ Threaded and field replaceable hose nozzles and pumper outlet.
- ▶ Ease of operation by anti-friction washer and forced lubrication
- ▶ Easily removable main valve from either the bonnet or grounded line flange
- ▶ 360° nozzle section rotation
- ▶ Field replaceable nozzles secured with external stainless steel lock screw
- ▶ Epoxy lined hydrant shoe and nozzle section

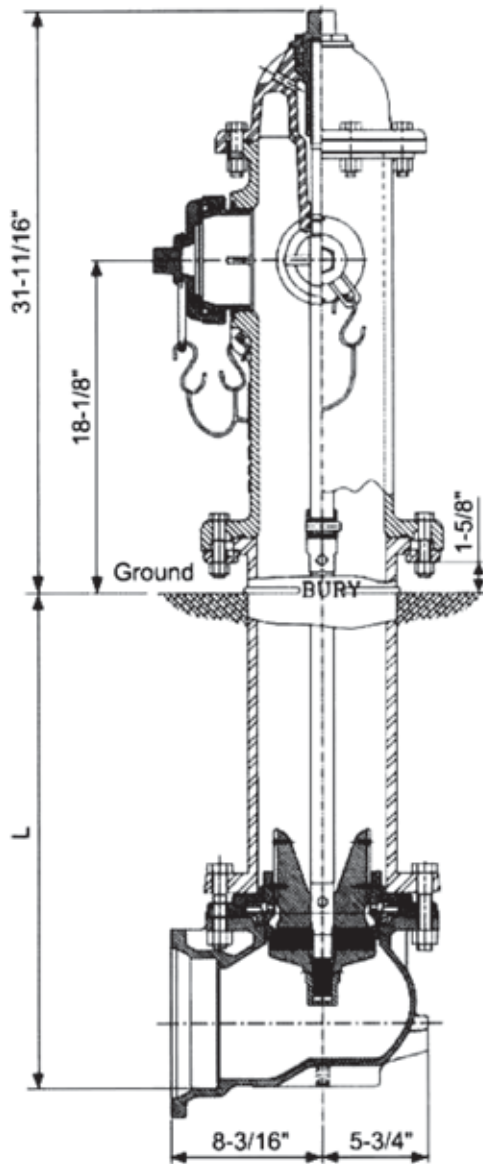


MODEL	LENGTH (mm)	LENGTH (feet)	WEIGHT
SF-F-06 (900)	900 mm	3' - 0"	170 Kg
SF-F-06 (1050)	1050 mm	3' - 6"	178 Kg
SF-F-06 (1200)	1200 mm	4' - 0"	183 Kg
SF-F-06 (1350)	1300 mm	4' - 6"	196 Kg
SF-F-06 (1500)	1500 mm	5' - 0"	200 Kg
SF-F-06 (1650)	1650 mm	5' - 6"	210 Kg
SF-F-06 (2050)	2050 mm	6' - 0"	215 Kg

In line with our policy of continuous product improvement, SFFECO reserves the right to modify specifications without prior notice.

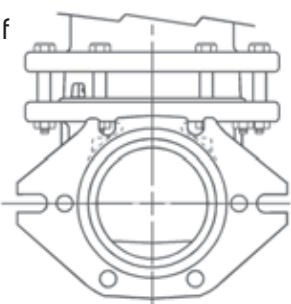
CONSTRUCTION:

- Seating type is resilient material to bronze seat construction
- One pumper nozzle, 4.5-4NH thread, Two hose nozzle, 2.5-7.5NH thread, Other size thread also available.
- 6" Mechanical Joint designed to ANSI/AWWA C153/A21.53.



Front View Detail of Mechanical Joint

Note: Mechanical Joint is Available upon request;
Standard is ANSI Flange



MATERIAL LIST

PART NAME	MATERIAL	ASTM SPEC.
Operating Nut	Bronze	ASTM B62
Hold Down Nut	Bronze	ASTM B62
O-Ring	Rubber	ASTM D2000
Oil Fill Plug	Brass	ASTM B16
Bonnet	Cast Iron	A126 Class B
Bonnet Bolt & Nut	Stainless Steel	AISI 201
Upper Rod	Carbon Steel	AISI 1045
Pumper Nozzle	Bronze	ASTM B62
Pumper Nozzle Gasket	Rubber	ASTM D2000
Pumper Nozzle Cap	Cast Iron	A126 Class B
Hose Nozzle	Bronze	ASTM B62
Hose Nozzle Gasket	Rubber	ASTM D2000
Hose Nozzle Cap	Cast Iron	A126 Class B
Cap Chain	Carbon Steel	Plated
Standpipe Upper	Cast Iron	A126 Class B
Safety Coupling	Stainless Steel	A890
Safety Flange Bolt & Nut	Stainless Steel	AISI 201
Safety Flange	Cast Iron	A126 Class B
Lower Rod	Carbon Steel	AISI 1045
Standpipe Lower	Cast iron	A126 Class B
Stem Pin	Stainless Steel	A276
Drain Ring Housing	Ductile Iron	A536 65-45-12
Drain Ring	Bronze	ASTM B62
Seat Ring	Bronze	ASTM B62
Bottom Valve Plate	Ductile Iron	A536 65-45-12
Disc Ring	Rubber	ASTM 2000
Bottom Plate Nut	Ductile Iron	A536 65-45-12
Elbow	Ductile Iron	A536 65-45-12

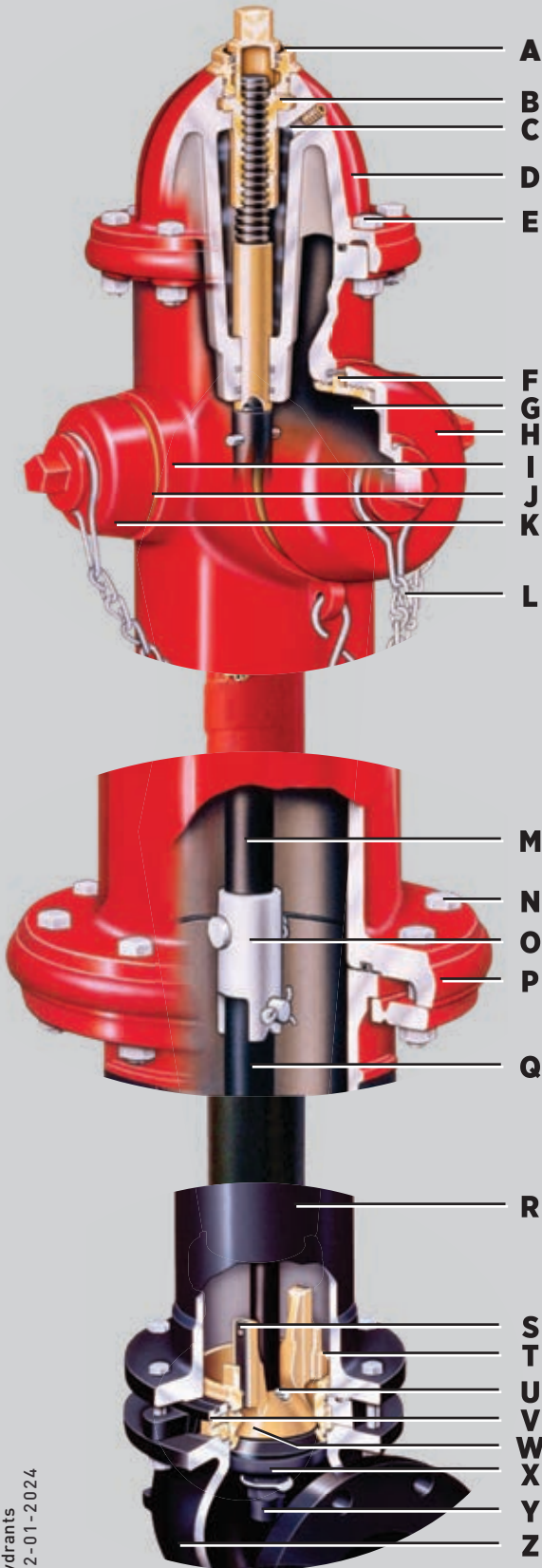
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Dry Barrel Type

Fire Hydrants



A-Z *of* SF-F-06



A HOLD DOWN NUT
Non-Corrosive Bronze Nut with integral weather seal, secures the operating nut and prevents unauthorized removal.

B O-RING
O-Ring, the hydrant's anti-friction washer assures smooth and easy turning operation of the product.

C OIL FILL PLUG
Allows for easy check and change of the hydrant's oil and its level without the need of opening the bonnet.

D BONNET
The hydrants bonnet or cap is a cast iron single unit preventing water entry to safeguard the O-ring and hold operating nut.

E BONNET BOLT AND NUT
Made of stainless steel as per AISI201 specifications holds the bonnet and the standpipe together.

F PUMPER NOZZLE GASKET
Made of rubber as per ASTM D2000. The gasket ensures tight seal of the hydrant pumper nozzle from leakage.

G PUMPER NOZZLE
The bronze constructed 4" pumper outlet ensures high performance, effective flow of water and reduces friction.

H PUMPER NOZZLE CAP
The cast iron constructed cap ensures protection of the nozzle threads and prevents misuse and external damage.

I HOSE NOZZLE
The two bronze constructed 2.5" hose outlets ensure effective water flow & provides flexible hose connection.

J HOSE NOZZLE GASKET
Made of rubber as per ASTM D2000. It ensures tight seal of the two hydrant hose nozzles from leakage.

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Dry Barrel Type

Fire Hydrants



K

HOSE NOZZLE CAP

The cast iron constructed cap ensures protection of the nozzle threads and prevents misuse and external damage.

S

DRAIN RING HOUSING

Made of ductile iron, it houses the drain ring which helps in reducing the wear and tear due to excessive usage.

L

CAP CHAIN

A heavy duty, special type, looped non-kinking chain is used to enable free opening and closing of the cap.

T

SEAT RING

Seat rings are permanently affixed to the Elbow with the drain ring and O-ring seal, providing easy seat removal.

M

UPPER ROD

Carbon steel stem provides smooth non-corrosive surface for holding O-rings to the bearing surface.

U

STEM PIN

Stainless steel stem pin rigidly secures the bottom valve plate of the hydrant to the lower stem.

N

SAFETY FLANGE BOLT & NUT

Safety Flange Bolt and Nut helps to prevent corrosion. They build a strong joint but also are easy to open for any maintenance.

V

DRAIN VALVE FACING

Unique pressure activated drain valve assures positive shut-off by tightening the seal as per the pressure level.

O

SAFETY COUPLING

High strength coupling assures a tight connection to the stem, protecting the main barrel from traffic induced damage.

W

BOTTOM VALVE PLATE

Conically designed, epoxy bonded single component compress the drain valve securing it to the lower stem.

P

SAFETY FLANGE

Permits easy and economical ways of maintenance, addition and change of upper barrel without excavation.

X

DISC RING

Compression type ring for sealing. Rubber made reversible type assures longer life and is convenient to use.

Q

LOWER ROD

The extension of the upper rod downwards from the safety flange to the main valve at the elbow.

Y

BOTTOM PLATE NUT

Sealed by a nut gasket, retains the main valve preventing corroding of stem threads and is locked by a washer.

R

STAND PIPE

Cast Iron moulded durable barrel to hold one pumper nozzle and two hose nozzles of required thread sizes.

Z

ELBOW

Extended neck of the Elbow with integral anti-rotation pads provides for maximum flow and easy connection.

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Wet Barrel Type

Fire Hydrants



Model: SFD-250-WH (C) Closed Head
Model: SFD-250-WH (F) Flange Head

Wet Fire Hydrant is used in places where there is no danger of vehicle accidents or freezing atmospheres. It is better to be used in malls, shopping centers, colleges, hospitals, etc.

Manufactured in accordance with AWWA C503 Standard

(1) 4.5" Pumper Nozzle, (2) 2.5" Hose Nozzles

Nozzle Threads to NFPA 1963 Standard

Flange to ANSI B16.1, Class 125 (6"). Other types available upon request

Working Pressure: 250psi for FM approval & 200psi for UL listed

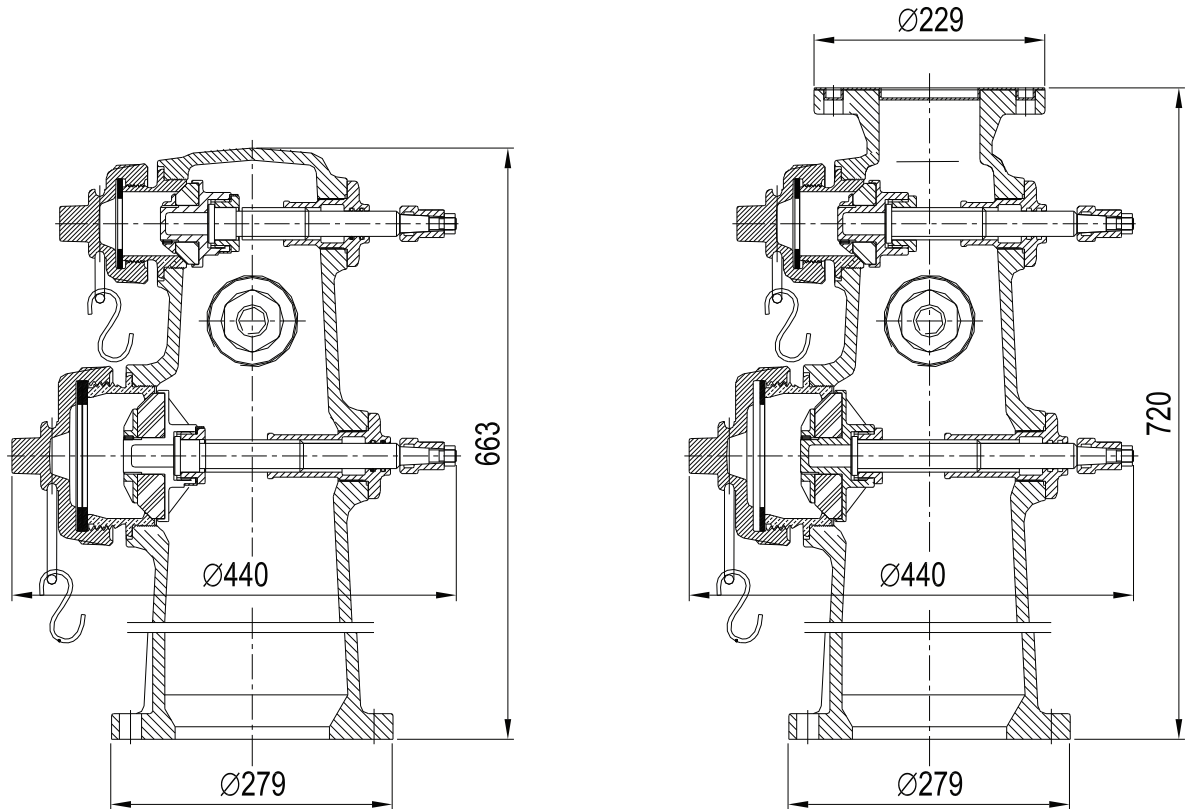
Working Temperature: 42°F - 180°F

Corrosion protection:

Interior and exterior is e-coated to a dry film thickness of 0.6 mils minimum, then fusion bonded epoxy powder coated (FBE).

Note:

Design and material are subject to change without notice



Part Name	Material	ASTM Spec.
Body	Ductile Iron	A536 65-45-12
Pumper Nozzle Cap	Cast Iron	A126 Class B
Pumper Nozzle	Bronze	B62 C83600
Main Valve	Rubber	NBR
Main Valve Holder	Stainless Steel	AISI 304
Hose Nozzle Cap	Cast Iron	A126 Class B
Hose Nozzle	Bronze	B62 C83600
Stem	Stainless Steel	AISI 304
Stem Nut	Bronze	B62 C83600
Operating Nut	Bronze	B62 C83600
O-ring	Rubber	NBR
Pumper Nozzle Gasket	Rubber	NBR
Hose Nozzle Gasket	Rubber	NBR

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SFFECO HAS A LONG STANDING ESTABLISHED REPUTATION FOR PIONEERING INNOVATION EVER SINCE ITS FOUNDATION IN 1983.

SFFECO HAS ITS STATE-OF-THE-ART MANUFACTURING PLANTS IN RIYADH AND DUBAI PRODUCING END-TO-END RANGE OF PRODUCTS FOR THE FIRE FIGHTING INDUSTRY MATCHING INTERNATIONAL STANDARDS IN QUALITY.



شركة المصنع السعودي لأجهزة الإطفاء SAUDI FACTORY FOR FIRE EQUIPMENT Co.

FACTORY & HEAD OFFICE - RIYADH

2nd Industrial Area, Al-Kharj Road, Riyadh, KSA, P.O. Box: 58469, Riyadh 11515
Tel : +966 11 2650070, E-mail: riyadh@sffeco.com.sa

SFFECO GLOBAL - DUBAI

P.O. Box: 261318, JAFZA South, Dubai U.A.E.
Tel: +971 4 880 9890, E-mail: sales@sffecoglobal.com

JEDDAH BRANCH

P.O. Box: 16769, Jeddah – 21474, KSA
Tel : +966 12 670 6009,
E-mail: jeddah@sffeco.com.sa

DAMMAM BRANCH

P.O. Box: 7162, Dammam – 31462, KSA
Tel : +966 13 8351961,
E-mail: dammam@sffeco.com.sa

MADINAH BRANCH

Tel : 0148660959, 0148283256,
E-mail: madinah@sffeco.com.sa

