

SFFECO AIR FOAM CHAMBER



Unparalleled Innovation in **FIRE** Protection

AIR FOAM CHAMBER



SFFECO Air Foam Chamber can be used for the protection of flammable liquid storage tanks. This method consists of one or more foam chambers installed on the shell of the tank just below the roof joint. A foam solution pipe extends from the proportioning source outside the dike wall to the foam maker located upstream of the chamber. A deflector is located inside the tank shell to deflect the discharge against the shell that results in a relatively gentle foam application on the fuel surface.

Model	Size		K.Factor
	Inlet	Outlet	
50 / 80	2"	3"	43.4 to 127
65 / 100	2 1/2"	4"	115.4 to 254
80 / 150	3"	6"	230.9 to 508
100 / 200	4"	8"	461.8 to 1016
150 / 250	6"	10"	928.6 to 1524.2

Working Pressure: Min 3 Bar / Max 7 Bar
Finishing : Red Epoxy paint
Connection Flange : ANSI B16.5 Class 150 #

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO AIR FOAM NOZZLE



Unparalleled Innovation in **FIRE** Protection



AIR FOAM NOZZLE

MODEL: SF-17PS

SF-17PS

1 1/2" NH female swivel inlet base, with specially contoured pistol grip and ball valve.
200LPM @ 3.5 bar and mixing 3% of AFFF (6% optional)

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO AIR FOAM WATER SPRINKLER HEAD



Unparalleled Innovation in **FIRE** Protection

AIR FOAM WATER SPRINKLER HEAD



500



520

Fixed system employing sprinklers have great utility in fire protection of aircraft hangars, chemical process areas, petroleum loading racks, terminals, refineries and flammable liquid storage areas.

Size	Model 500	Model 520	Model 550
Type	-Upright -Pendent		
Flow rate	86 LPM at 4 Bar	35 LPM at 3 Bar	80 LPM at 3 Bar
Material	Cast Brass	Brass & Stainless Steel	

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh 14334
P.O. Box 4441 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 4441 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FIRE BLANKET



Unparalleled Innovation in **FIRE** Protection



FIRE BLANKET

Model: SFB 200
Model: SFB 1000
Model: SFB 3000

SFFECO Fire Blankets are highly efficient fire fighting units which can extinguish fire in its early stage by smothering. They withstand extremely high temperature. Please check the specification below:

APPLICATIONS:

For usage on wide range of small fires including those caused by volatile liquid and cooking gas. For schools, hospitals, residential complexes, laboratories, garages, workshops, ships, galleys and numerous industrial outlets.

SIZES AVAILABLE:

4 Feet x 4 Feet (120 cm x 120 cm)
6 Feet x 4 Feet (180 cm x 120 cm)
6 Feet x 6 Feet (180 cm x 180 cm)
Other sizes are available up on request.

Model SFB 200:

Manufactured from 420 gm/m² fiber glass material classed as non combustibile to BS 476 Part 4 and class 1 surface spread of flame to BS 476 Part 7.

Model SFB 1000: BS 6575 Light Duty

This range is manufactured from fiber glass which is impregnated from both sides with a special high temperature resistant silicon rubber which is still very durable and flexible. Model SFB/1000 have finished weight of 565 gm/m².

Model SFB 3000: BS 6575 Heavy Duty

This range of SFB 3000 heavy duty is manufactured from fiber glass which is impregnated both sides both sides with a self extinguishing neoprene synthetic rubber. It has a finished weight of 900 gm/m² and it is designed to provide the protection for personnel and equipment against hot metal splash. It meets the heavy duty requirements of hot cutting resistance tests as well as the hot oil test of BS 6575.

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

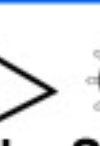
Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO Cabinets Model SF/900 - SF900A



Unparalleled Innovation in **FIRE** Protection



SFFECO Certified to ISO 9001 quality system is specialized in the manufacturing of hose reel cabinets (manual and automatic) indigenously as per international standards, such as B.S (British) and NFPA (American) with stringent quality control to satisfy customer needs and requirements.

DESIGN FEATURES:

Manufactured from steel or stainless steel, with thickness of 1mm to 2mm.

Hose reel drums pressed on hydraulic press to form ribs for strength and durability to avoid twisting while handling.

Outer edges rolled over for safe handling and aesthetic appearance.

Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.

Cabinets can be surface mounted, recessed or semi recessed.

Cabinets of stainless steel also available with hairline or mirror finish.

Different styles available to meet architectural requirements.

Semi-Automatic 1.5" hose rack, one piece construction of 16 gauge steel rack.

Automatic release mechanism allows valve to be opened without release of water until last fold of hose is removed.

SFFECO Cabinets SF900 & SF900A



Unparalleled Innovation in **FIRE** Protection

Components of Cabinet

Fire Hose Rack Cabinet

Fire Hose Reel Cabinet

UPPER COMPARTMENT COMPONENTS:

OPTION 1:

- 🔥 3/4" Ø or 1" Ø x 30 M Rubber Hose mounted on swinging reel with Black or Red color as per customer request
- 🔥 EN 671 Hose Reels are available up on request
- 🔥 1" Landing Valve, Brass Finish
- 🔥 1" Nozzle Three way (Plastic / Brass / Chrome plated)

OPTION 2:

- 🔥 1.5" Ø x 30M Hose with Semi-Automatic Hose Rack
- 🔥 Nipple for Hose Rack 1.5" Ø
- 🔥 Angle Valve 1.5" Ø
- 🔥 Nozzle Jet & Spray (Fog type)

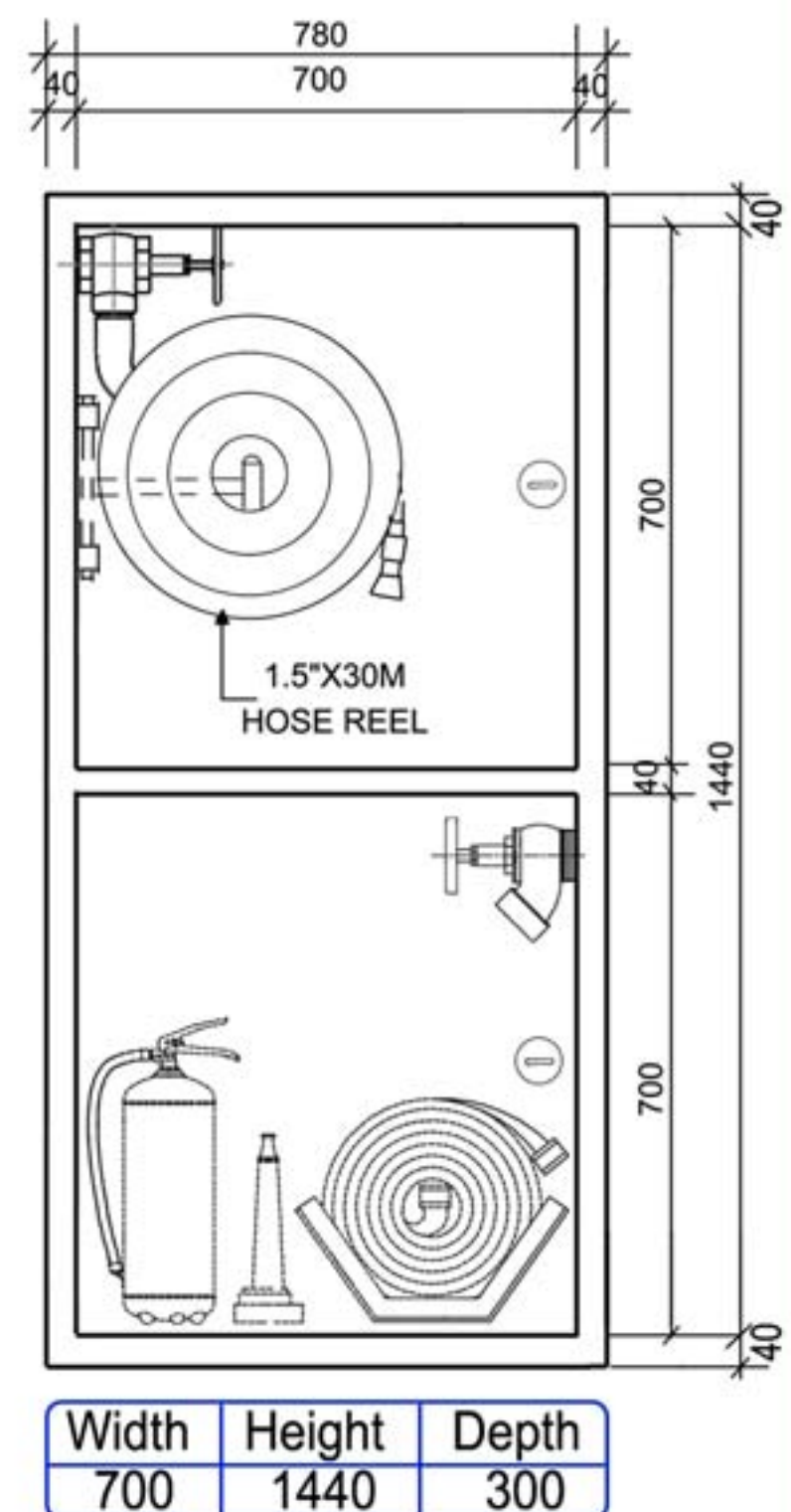
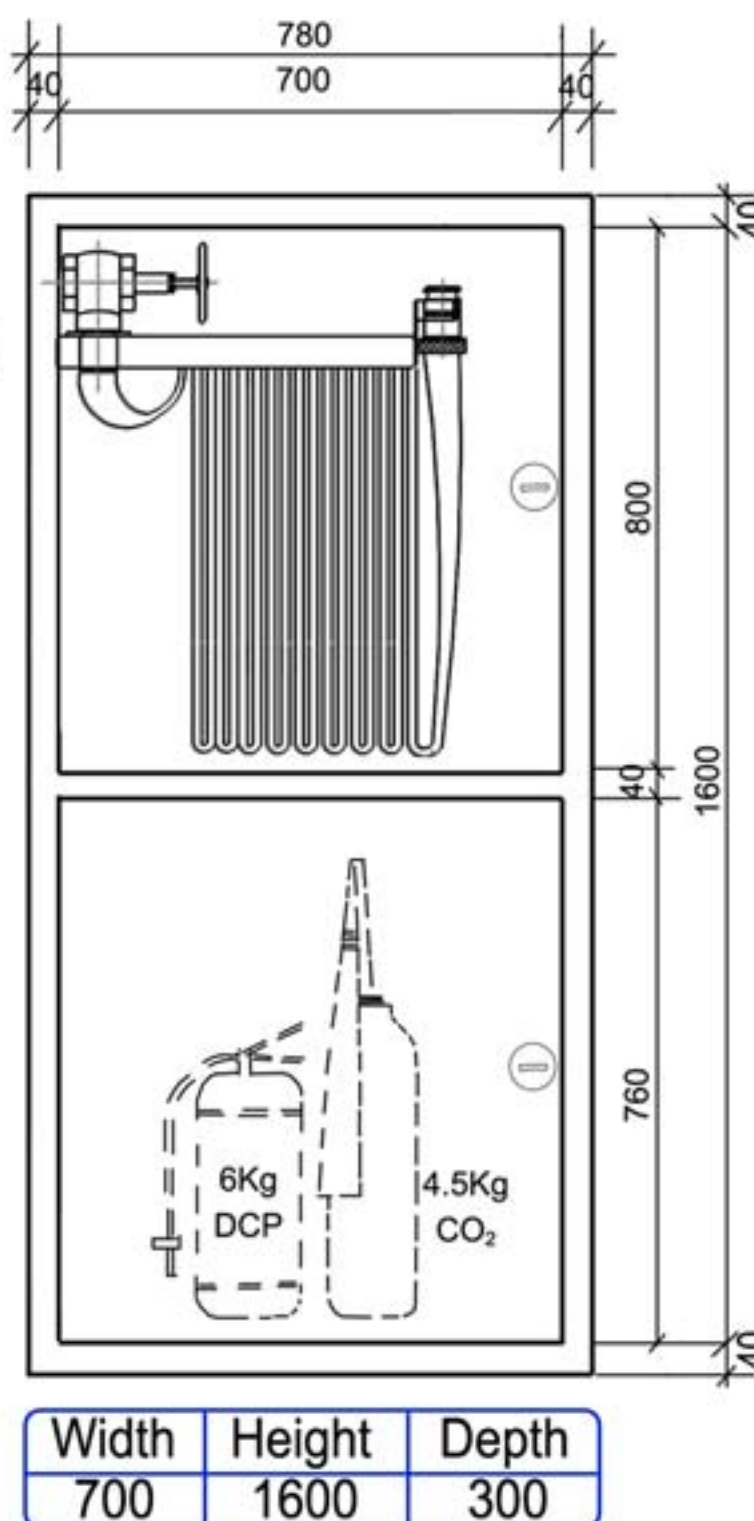
LOWER COMPARTMENT COMPONENTS:

OPTION 1:

- 🔥 2.5" x 30 M Synthetic Hose with coupling
- 🔥 2.5" Angle Valve male / female
- 🔥 2.5" Jet type nozzle
- 🔥 6 KG multi purpose dry powder fire extinguisher

OPTION 2:

- 🔥 6 KG Dry Powder / 9 Ltr Water fire extinguisher
- 🔥 4.5 KG / 5 KG / 5 Lbs CO2 Fire extinguisher



Cabinets are available with Hairline finish (Brush Finish) / Mirror Finish / Satin Finish / Red Powder Coated

Hinges are available with Piano type / Bush Pin Hinges / Concealed Pin Hinges

Pressure Reducing Valve or Lock Shield Valve are available upon request.

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO DELIVERY HOSE COUPLINGS



Unparalleled Innovation in **FIRE** Protection



DELIVERY HOSE COUPLINGS INSTANTANEOUS WITH SERRATED TAILS

- ☛ The instantaneous system designed to BS336
- ☛ The extensive range of couplings is available in standard sizes of 1 ½" and 2 ½" and also in a variety of sizes according to the requirements
- ☛ In addition to standard Aluminium alloy, couplings made of Bronze, Gun Metal and Chrome plated on any of the above, is also available upon request

MODEL NO.	NOMINAL SIZE	MATERIAL
SFWR 110*	1½"	Aluminium Alloy /
SFWR 079*	2½"	Bronze / Gunmetal

* Specify A/AL for Aluminium Alloy
B for Bronze
GM for Gun Metal

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



SAUDI FACTORY FOR FIRE EQUIPMENT



FIRE DOORS



& FRAMES



YOUR GLOBAL PARTNER FOR FIRE PROTECTION



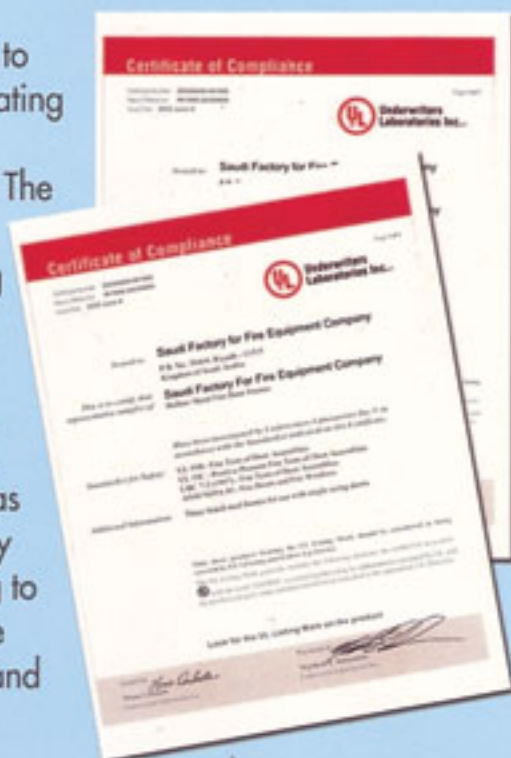
This PDF was created using the **Sonic PDF Creator**.
To remove this watermark, please license this product at www.investintech.com



INTRODUCTION

SFFECO is unique in the fire fighting industry. It is a leading – one solution – company that operates on a global level. SFFECO is a brand name that stands for innovation and excellence. Since it was established in 1985, SFFECO has been a pioneer in manufacturing remarkable products and providing superb services. SFFECO is ISO 9001 certified based on recommendations from the TUV of Germany and L.P.C.B. of United Kingdom for the whole organization and its activities.

SFFECO operates globally to emphasize its vision of creating complete and innovative solutions in fire protection. The company's international operations include exporting to 45 countries in Europe, Asia, Africa, and the Americas. Along with our clients and agents from all over the world, SFFECO has scripted a true success story of growing and expanding to become a key player in the fight against fire hazards and tragedies worldwide.



As part of its continuous strive for innovation, SFFECO has launched its world class fire resisting doors and frames operation. The fire doors and frames are manufactured in a totally automated plant which employs computer numerical controlled (CNC) machines and thus ensures uniform quality and superb finish. SFFECO has the capability to manufacture a variety of fire doors and frames to meet the specific requirements of customers.

SFFECO fire doors and frames have acquired the UL Listing, LPCB and FM approvals. The doors and frames have been manufactured and tested according to NFPA 252 or UBC 7-2 (1994), ANSI/UL 10C, UBC 7-2 (1997), LPS 1056 (22/11/96), BS 476-20(1987) and BS 476-22 (1987) which can achieve a fire rating requirements of 3 hours.

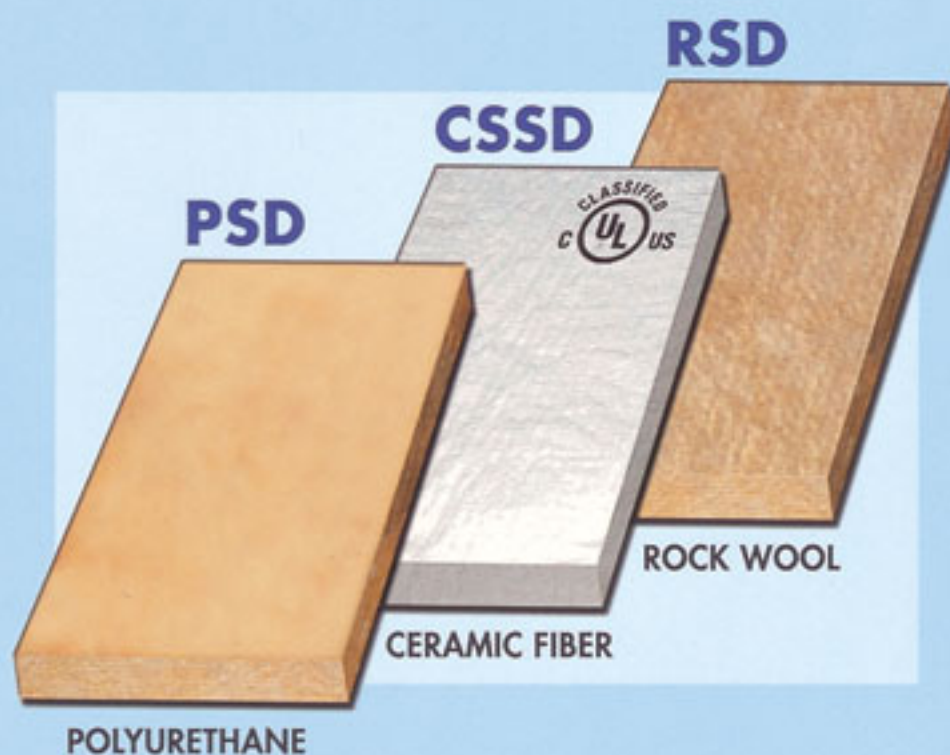
SFFECO fire doors are manufactured to comply with various architectural requirements. The precise finish and elegant appearance makes SFFECO's doors suitable for all applications.

SFFECO

SFFECO's fire rated doors are made of Cold Rolled Steel, Galvanized Steel, or Stainless Steel. These doors are designed for areas where strength, stability and durability are a priority. Typical applications include entrances to industrial premises, to shops' service doors, to basements, to stair wells and to elevator shafts. They are also widely used as dividing or external doors in electrical and petrochemical plants.

There are three types of fire doors; on the basis of insulation material.

- 1) PSD - Polyurethane Steel Door
- 2) RSD - Rock Wool Steel Door
- 3) CSSD - Ceramic Stiffened Steel Door (UL Listed)



DOOR LEAF

Material	: Cold Rolled Steel, Galvanized Steel, or Stainless Steel
Material Thickness	: Minimum of 1.2 mm
Door leaf Thickness	: 45 mm
Finish	: The doors are supplied factory primed as standard. Alternatively, they can be supplied powder painted per customer request.

MAXIMUM DOOR OPENINGS:

Single Door	: 1200mm X 2400mm
Double Door	: 2400mm X 2400mm

STANDARD SIZES:

Single Door	: 900mm X 1950mm X 45mm
Double Door	: 1800mm X 1950mm X 45mm



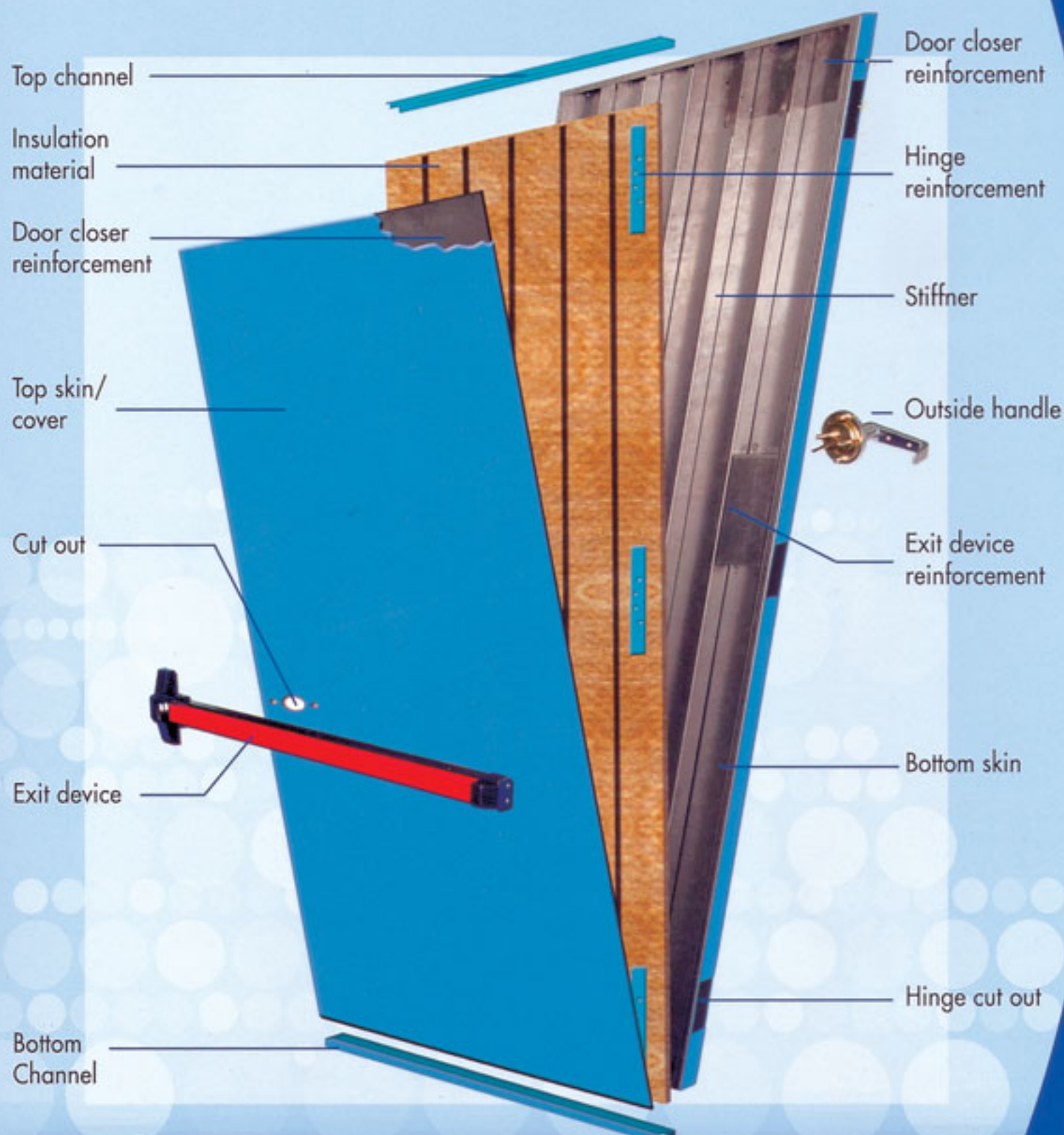
FIRE DOORS

STANDARD FIRE DOOR HARDWARE

Fire Rated Locks or Exit Devices with Latching units
Ball Bearing Hinges
Door Closer/Floor Closer
Weatherstrip
Door Bottom
Flush Bolts (Double Door Only)
Coordinators (Double Door Only)
Astragal (Double Door Only)

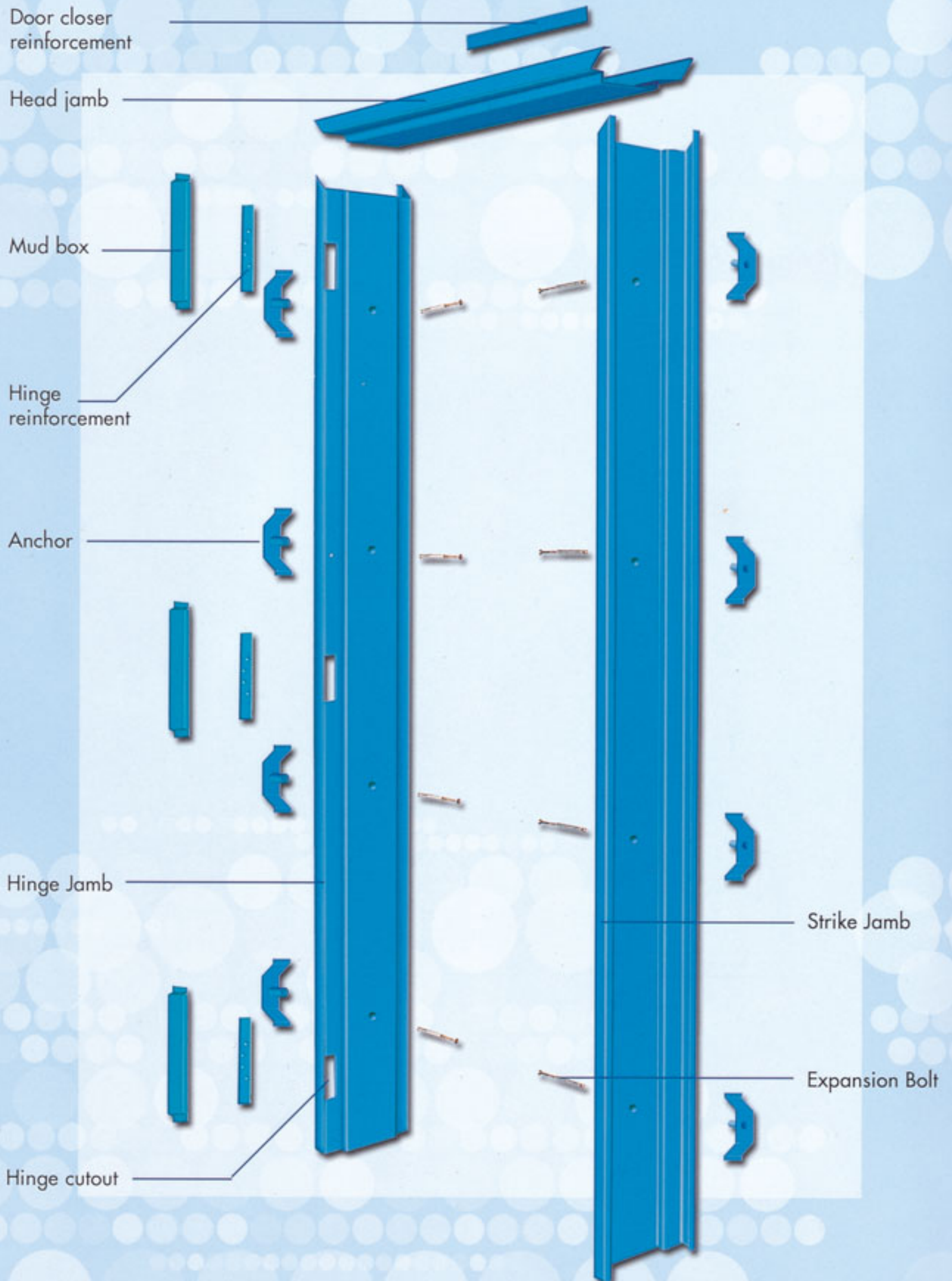
OPTIONAL HARDWARE:

Kick Plate or Protection Plate
Surface Bolts
Threshold (Panic Threshold or Saddle Threshold)



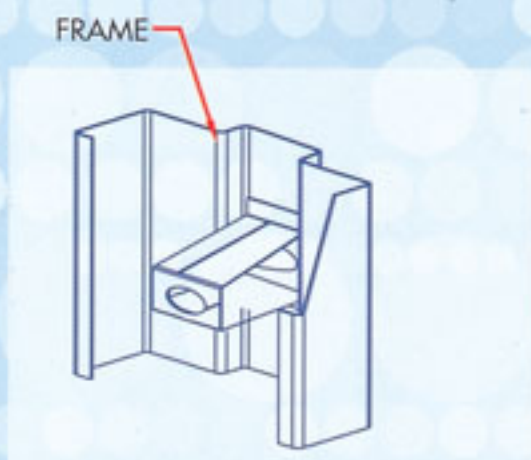


SFFECO FIRE DOOR



FRAMES

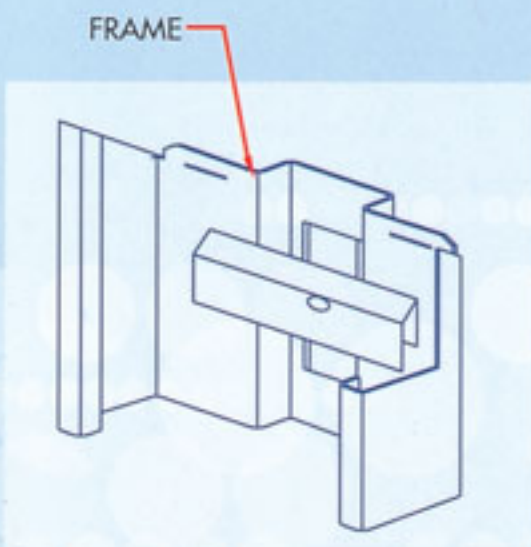
MASONRY WALL



- Material : Cold Rolled Steel, Galvanized Steel or Stainless Steel
Thickness : 1.5mm and 2.0 mm
Construction : Welded or Knocked down
Finish : Frames are supplied factory primed as standard. Alternatively, they can be supplied powder painted as per customer request.

Note: The dimensions given are for standard 45mm thick doors.
SFECO can also fabricate door frames with different dimensions.

DRY WALL



- Material : Cold Rolled Steel, Galvanized Steel or Stainless Steel
Thickness : 1.5mm and 2.0mm
Construction : Knocked down only
Finish : Frames are supplied factory primed as standard. Alternatively, they can be supplied as powder painted as per customer request.

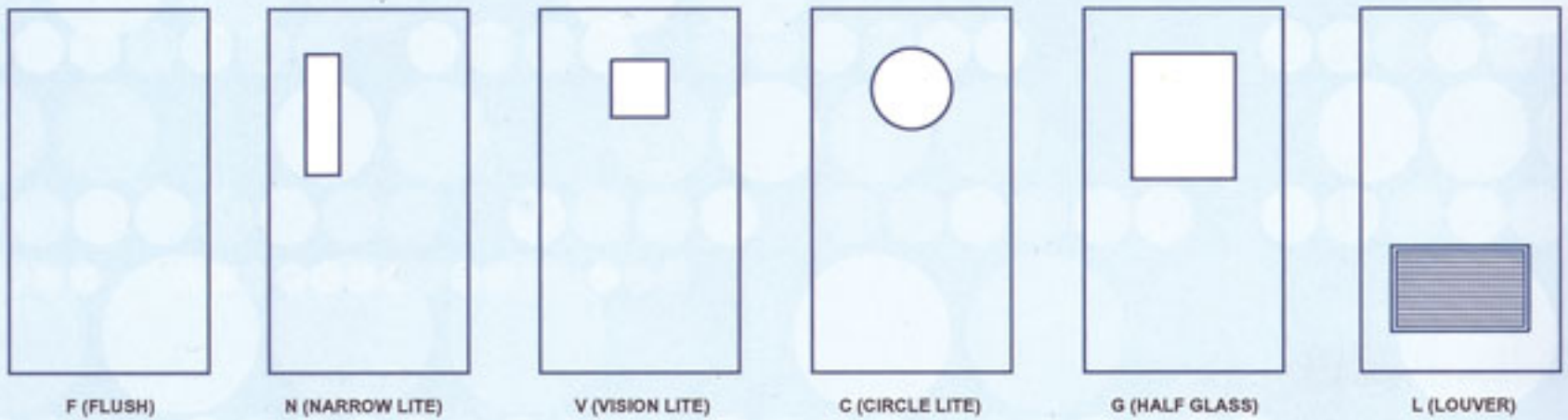
Note: The dimensions given are for standard 45mm thick doors.
SFECO can also fabricate door frames with different dimensions.





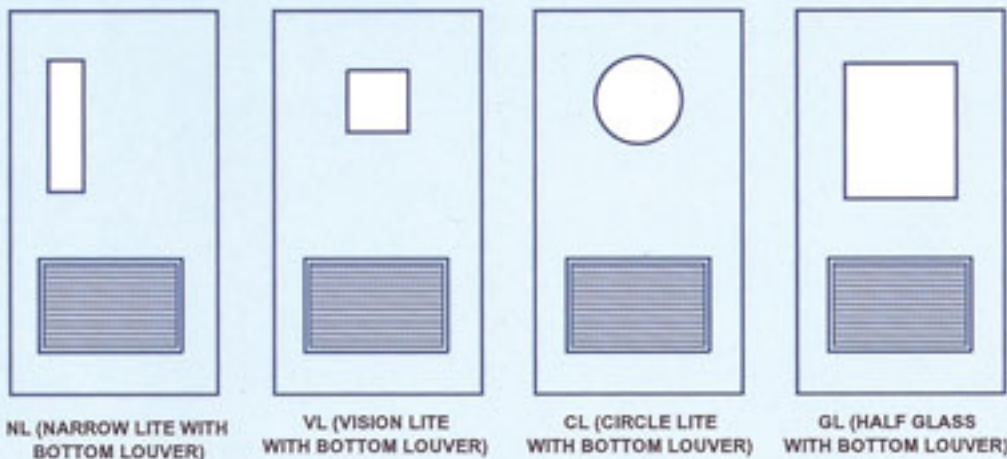
STANDARD DESIGN OF DOORS

STANDARD DESIGN OF DOORS

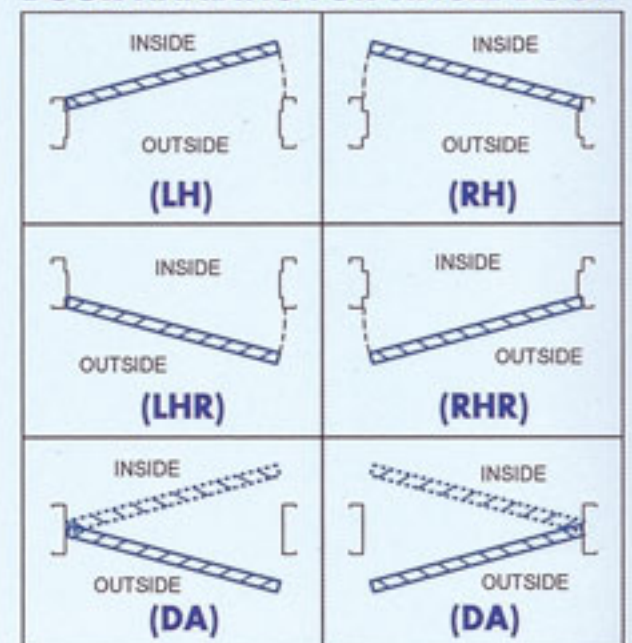


CUSTOM DESIGN (CD),

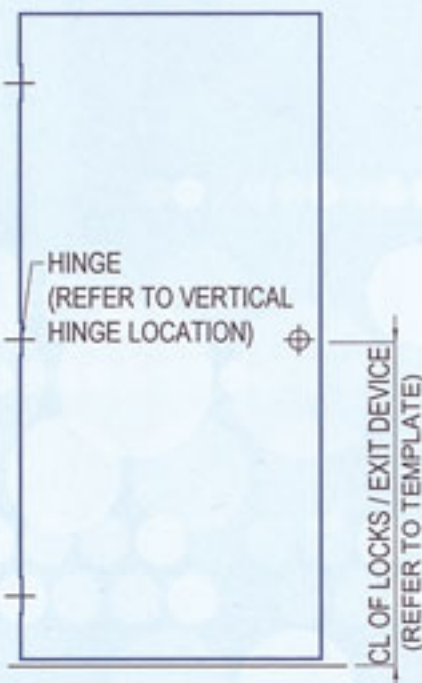
CD is a combination of optional designs applicable for non fire rated doors.



DOOR HANDING FOR SINGLE DOOR



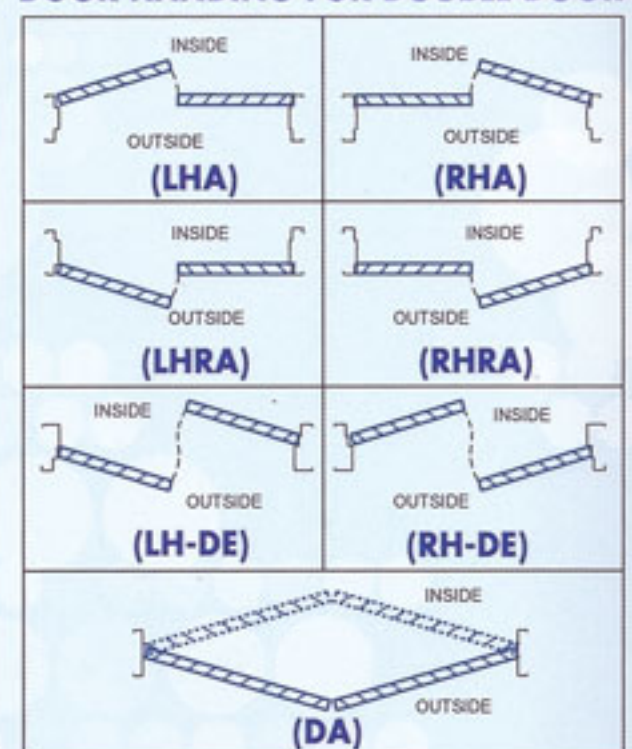
DOOR ELEVATION



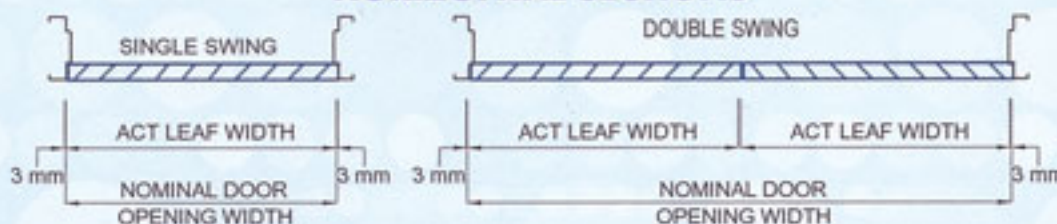
VERTICAL SECTION



DOOR HANDING FOR DOUBLE DOOR



HORIZONTAL SECTIONS



DOOR ACCESSORIES

UNIVERSAL HANDING



OUTSIDE ACCESS DEVICES



HARDWARE





Riyadh - Head Office:

2nd Industrial Area - Al-Kharj Road - Riyadh 14334

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

P.O. Box 4441 - E-mail : riyadh@sffeco.com.sa

Jeddah Branch:

P.O. Box 16769, Jeddah – 21474, KSA

Tel: +966 2 670 6009, Fax: +966 2 676 0307

E-mail: Jeddah@sffeco.com.sa

Dammam Branch:

P.O. Box 7162, Dammam – 31462, KSA

Tel: +966 3 8351961, Fax: +966 3 8351968

E-mail: dammam@sffeco.com.sa

Madina – Sultana Branch:

Tel: 048660959 / 048283256, Fax: 048660969

Bahrain Branch:

Telefax: +973 17 721153

Dubai

International Sales Office:

Jebel Ali Free Zone, Dubai U.A.E.

Tel: +971 4 886 1111, Fax: +971 4 886 2322



SFFECO DOUBLE SYNTEX SERIES FIRE HOSE



Unparalleled Innovation in **FIRE** Protection



FIRE FIGHTING HOSE (THREE LAYERS) DOUBLE JACKET

- ☛ 100% Polyester double jacket synthetic rubber lined.
- ☛ Specially designed for applications where abrasion resistance and high pressure are required
- ☛ Made from high tensile strength 100% virgin polyester yarns in both the warp and weft, hence extra durability
- ☛ Long lasting and never need drying
- ☛ Inner jacket twill weave
- ☛ Outer jacket plain weave

MODEL	DIAMETER, INCH	WORKING PRESSURE	BURST PRESSURE
D.SYNTEX.W	1 1/2, 2 1/2	15 BAR	60 BAR
D.SYNTEX.P*	1 1/2, 2 1/2	15 BAR	60 BAR
Colours available : White, Red (uncoated) * Yellow / Red (with Polyurethane coating)			
Standard lengths : 23m (75 Ft.), 30m (100 Ft.), 60m (200 Ft.) (Other lengths available upon request)			

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO DURALEX SERIES FIRE HOSE



Unparalleled Innovation in **FIRE** Protection



DURALEX SERIES FIRE FIGHTING HOSE THE HIGH PERFORMANCE, TOP QUALITY FIRE FIGHTING HOSE

- Fire hose of BS 6391 type 3 standard
- All-in-one construction made of synthetic rubber with textile reinforcement locked in (Optional: material of PVC)
- Resistant to:
 - Kinking
 - Ozone
 - Ultra-violet
 - Weather
 - Heat
 - De-lamination
- Hard-wearing resistance to abrasion, oil and chemicals
- maintenance free: No drying required, easy for cleaning
- Highly flexible and light weight
- Internal lining is high quality synthetic rubber (Optional: material of PVC)
- External cover made of high quality rubber with longitudinal ribs. (Optional: material of PVC)

MODEL	DIAMETER, INCH	WORKING PRESSURE	BURST PRESSURE
DURALEX 40	1 - 4	17 BAR	45 - 50 BAR
Colours available : Red			
Standard lengths : 23m (75 Ft.)			
30m (100 Ft.)			
60m (200 Ft.)			
Applicable Standards : BS 6391 Type 3, DIN 14811			

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FIRE HOSE REEL



**BS EN 671
Approved**



**Protect
your
investment**



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



Saudi Factory for Fire Equipment Co. (SFFECO) is one of the leading company based in Riyadh, Kingdom of Saudi Arabia, specialized in the manufacturing of a wide range of fire protection equipment.

SFFECO is committed to achieving the highest level of quality in all of its products and services. With this as the aim we maintain a quality system to ISO 9001. SFFECO is certified to ISO 9001 by TUV of Germany & LPCB of UK.

SFFECO has been awarded with License No: KM 73087 to use KITEMARK by British Standard Institute (BSI), United Kingdom for HOSE REELS conforming to BS EN 671 – 1.

Also SFFECO range of Portable Fire Extinguishers displays the BSI Kite Mark and conforms to BS EN3 standards; SFFECO has received the license to use the wheel mark for EN Extinguishers for use in Marine Applications as per Marine Equipments Directive (MED) 96/98/EC and amended by 2002/75/EC.

SFFECO products are exported all over Europe & African countries.



product description

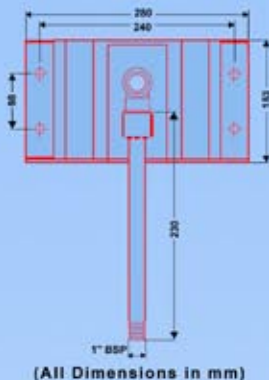
The Fire Hose Reels are designed and manufactured as per BS EN671 – 1. Hose reel discs are made of 1.2mm pre-treated electro-galvanized steel sheet, painted with electrostatic powder coating and oven baked at 200°C. Hose reel side plates are protected with a polyester powder coating that complies to salt spray test requirement which is specified in ISO 9227 for 240 hrs.

Hose reel drum has formation of hydraulically pressed ribs to give extra strength and to avoid twisting. The outer edges are rolled over to give a safe handling edge on the outer rims and better appearance.

Automatic fire hose reels are available with an internal valve built into the hose reel unit which opens within 3 revolutions of the hose reel as the hose is pulled out and closes when the hose is wound back to the reel.



products



Fixed

Manual and Automatic

Fixed type hose reels Manual and Automatic are specially designed for easy mounting on a flat wall and easy accessibility.

Available Models

MANUAL	AUTOMATIC
SF 30 F - 19	SF 30 A - F - 19
SF 30 F - 25	SF 30 A - F - 25

Hose Reel Diameter 580 mm

Hose Length 30 m

Swinging Pipe

Manual and Automatic

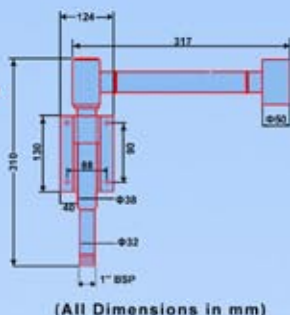
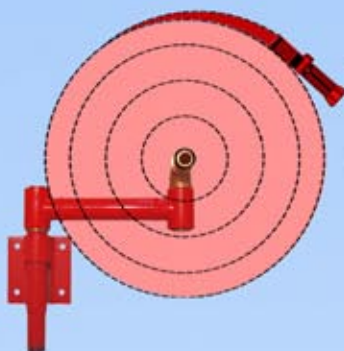
Swinging Pipe Manual and Automatic Fire Hose Reels are designed for mounting on flat wall where access is limited in a recessed cabinet or any riser shaft. Maximum swinging angle if wall mounted is 180°

Available Models

MANUAL	AUTOMATIC
SF 30 SP - 19	SF 30 A - SP - 19
SF 30 SP - 25	SF 30 A - SP - 25

Hose Reel Diameter 580 mm

Hose Length 30 m



Swinging Arm

Manual and Automatic

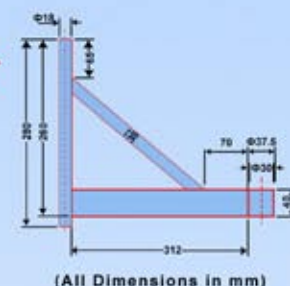
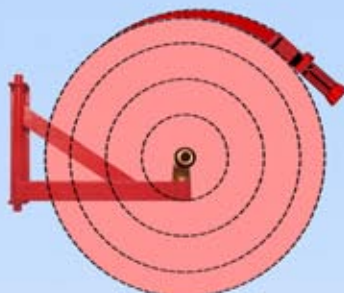
Swinging Arm Manual and Automatic Fire Hose Reels are specially designed for mounting on flat walls, where access is limited in a recessed cabinet or any riser shaft. Maximum swinging angle if wall mounted is 180°

Available Models

MANUAL	AUTOMATIC
SF 30 SA - 19	SF 30 A - SA - 19
SF 30 SA - 25	SF 30 A - SA - 25

Hose Reel Diameter 580 mm

Hose Length 30 m



accessories



Hose

Hose is semi rigid made of rubber in red color manufactured to European Standards BS EN 694. The Hose has three ply with two synthetic rubber layers and textile reinforcement.

Diameter of Hose	19 mm & 25 mm
Maximum working pressure	12 bar
Minimum burst pressure	42 bar
Proof pressure	24 bar
Confirming to	EN 694



Nozzle

Rigid Plastic fast opening. (Equivalent Diameter 6mm)
Shut - Spray - Jet: Spray discharge pattern in conical form with a spray angle more than 45°.



Valve & Nipple

Valves Shall be of 3/4" or 1" ball valve and nipple of 3/4" or 1".
Body made of Brass.

CONTROL SETTING	MINIMUM FLOW RATE AT 6 BAR (LTRS/MIN)		EFFECTIVE THROW RANGE AT 2 BAR (M)	
JET	19MM	25MM	19MM	25MM
	48	49.5	>10	>10
SPRAY	65.9	83.9	>3	>3



SAUDI FACTORY FOR FIRE EQUIPMENT CO.

Factory:

2nd Industrial Area - Al-Kharj Road - Riyadh

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office:

Al-Sitteen Street - Malaz - Riyadh

Tel. 00966 1 2063294 - Fax. 00966 1 2063295

P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa

Jeddah Branch

Tel. 00966 2 6706009 - Fax. 00966 2 6760307

Dammam Branch

Tel. 00966 3 8351961 - Fax. 00966 3 8351968

Madina Branch

Tel. 00966 4 8660959 - Fax. 00966 4 8660969

Bahrain Branch

Telefax. 00973 17 721153

SFFECO INTERNATIONAL

International Sales Office:

Jebel Ali - Free Zone - Dubai - U. A. E

Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322

E-mail: dubai@sffecointl.ae

Certificates:



Memberships:



**National Fire
Protection
Association**



**Fire Protection
Association**



*International
Safety
Council*

www.sffeco.com

SFFECO Extinguisher Cabinets



Unparalleled Innovation in **FIRE** Protection



CABINET DESIGN:

Cabinet and door leaves are made of mild /stainless steel sheet with all around folded edges. There are different design for door leaves to suit the architectural engineering.

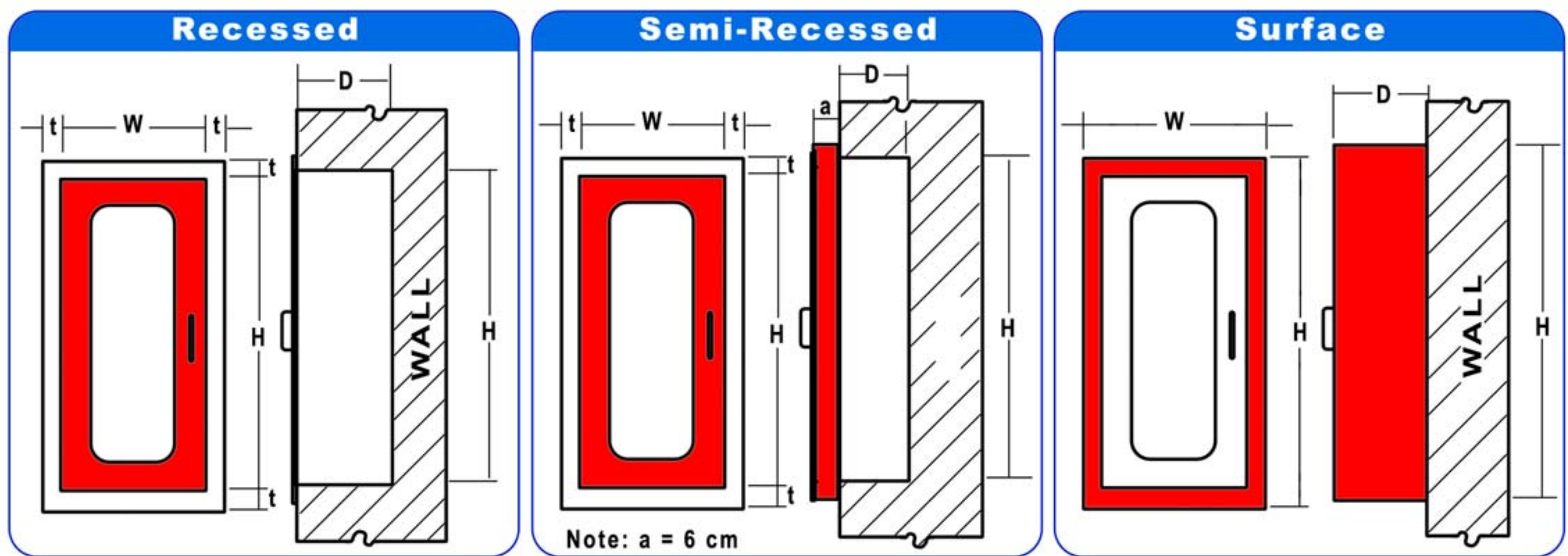
Cabinets are fitted with continuous piano hinges. Stainless steel hinges are available upon request.

Corrosion protection: Cabinets and Door leaves are painted with electrostatic powder paint oven baked to give protection against rust and to give smooth finish.

Instruction sign in Arabic and English are silkscreen printed on the cabinet.

Colors available: Red RAL 3000 & Off white. Other colors are available upon request.

Frame and Door leaves are available in Aluminum or Stainless Steel.



Model No.	Wall Mounting	Size of Cabinet "cm"			Wall opening size for Recessed and Semi-Recessed Cabinet "cm"			t "cm"	For use with SFFECO Extinguishers (Maximum Size)
		H	W	D	H'	W'	D'		
SF 102	Recessed	45	22	15	47	24	16	4	5 Lbs/3 Kg Dry Powder or Halon 1211
SF 104	Recessed	60	28	18	62	30	19	4	10 Lbs/6 Kg Dry Powder or Halon 1211. 6 Ltr Foam
SF 106	Recessed	70	30	22	72	32	23	4	10 Kg/12 Kg Dry Powder or Halon 1211. 10 Ltr Water or Foam. 5 Lbs. CO ₂
SF 108	Recessed	110	32	25	112	34	26	4	10 Lbs/6 Kg CO ₂
SF 202	Recessed	80	28	18	82	30	19	4	10 Lbs/6 Kg Dry Powder or Halon 1211. 6 Ltr Foam with Blanket 4x4
SF 204	Recessed	90	30	22	92	32	23	4	10 Kg/12 Kg Dry Powder or Halon 1211. 10 Ltr Water or Foam. 5 Lbs CO ₂ with Blanket 4x4
SF 112	Semi-Recessed	60	28	18	62	30	13	4	10 Lbs/6 Kg Dry Powder or Halon 1211
SF 114	Semi-Recessed	70	30	22	72	32	17	4	10 Kg/12 Kg Dry Powder or Halon 1211. 10 Ltr Water or Foam. 5 lbs CO ₂
SF 116	Semi-Recessed	110	32	25	112	34	21	4	10 Lbs/6 Kg CO ₂
SF 210	Semi-Recessed	80	28	18	82	30	13	4	10 Lbs/6 Kg Dry Powder or Halon 1211
SF 212	Semi-Recessed	90	30	22	92	32	17	4	10 Kg/12 Kg Dry Powder or Halon 1211
SF 120	Surface	45	22	15	--	--	--	--	5 Lbs/3 Kg Dry Powder or Halon 1211
SF 122	Surface	60	28	18	--	--	--	--	10 Lbs/6 Kg Dry Powder or Halon 1211. 6 Ltr Foam
SF 124	Surface	70	30	22	--	--	--	--	10 Kg/12 Kg Dry Powder or Halon 1211. 10 Ltr Water or Foam. 5 lbs. CO ₂
SF 126	Surface	110	32	25	--	--	--	--	10 Lbs/6 Kg CO ₂
SF 220	Surface	80	28	18	--	--	--	--	10 Lbs/6 Kg Dry Powder or Halon 1211. 6 Ltr Foam with Blanket 4x4
SF 222	Surface	90	30	22	--	--	--	--	10 Kg/12 Kg Dry Powder or Halon 1211. 10Ltr Water or Foam. 5 Lbs CO ₂ with Blanket 4x4



- ### Ordering Information
- ➔ Select Cabinet Model Number.
 - ➔ Select Cabinet Door Style
 - ➔ Select Type and Size of Fire Extinguisher

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com

SFFECO FIRE REEL HOSE



Unparalleled Innovation in **FIRE** Protection



FIRE REEL HOSE
NON COLLAPSIBLE COMPLIES BS 3169

Construction : Three ply hose with two synthetic rubber layers and a textile reinforcement

Colours : Red, Black

MODEL	DIAMETER (INCH)	WORKING PRESSURE	BURST PRESSURE
SF 75	¾ inch	15 BAR	50 BAR
SF 100	1 inch	15 BAR	50 BAR
SF 150	1 ½ inch	10 BAR	40 BAR
SF 200	2 inch	10 BAR	40 BAR

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM BLADDER TANK



Unparalleled Innovation in **FIRE** Protection

SFFECO Bladder Tank Proportioning System is designed to inject from concentrate into a suitable water supply and automatically proportion foam concentrate over a wide range of flows and pressures.

Class of Fire



Specification:

Type : Vertical & Horizontal
Material : Carbon Steel / Stainless Steel
Finish : Red
Capacity : 50 – 3200 Gallons (189 – 12112 Liters)

Applications:

Fuel Storage Tanks and bunds / dikes
Refineries and petrochemical installations
Helicopter landing areas, Jetties, Chemical Plants
Tanker loading bays, Offshore oil rigs, etc.

Model No	50*	100*	150*	200*	500*
Capacity	50 Glns.	100 Glns.	150 Glns.	200 Glns.	500 Glns.
Model No	1000*	1200*	1500*	1600*	1800*
Capacity	1000 Glns.	1200 Glns.	1500 Glns.	1600 Glns.	1800 Glns.
Model No	2000*	2200*	2500*	2800*	3000*
Capacity	2000 Glns.	2200 Glns.	2500 Glns.	2800 Glns.	3000 Glns.

Specify H for Horizontal and V for Vertical

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM BRANCH PIPE



Unparalleled Innovation in **FIRE** Protection



FOAM BRANCH PIPE MODEL SF-31-4N

MODEL: SF-31-4N

MODEL: SF-31-5N

Specification	SF-31-4N	SF-31-5N
Working Pressure	5 Bar	5 Bar
Discharge	200 LPM	200LPM
Expansion Rate	50	15 (Low) 50 (High)
Effective reaches	8m	8m (Low 20m (Straight))
Foam covers	10m ³ /minute	20m ³ /minute
Total Length	520mm	750mm
Inlet Size	1 1/2" NH female	1 1/2" NH female
Total Weight	4kgs	7.5 Kgs

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM CONCENTRATES



Unparalleled Innovation in **FIRE** Protection



Class of Fire



	Nominal Use Conc.	Specific Gravity	Minimum use Temp	pH
AFFF	3%	1.02	1.7° C	7.5 – 8.5
AFFF	6%	1.00	1.7° C	7.5 – 8.5
AFFF (Alcohol Resistant)	3%	1.03	1.7° C	7.5 – 8.5
AFFF (Alcohol Resistant)	6%	1.00	1.7° C	7.5 – 8.5
FP	3%	> 1.13	-15° C	6.5 – 7.5
FP	6%	> 1.12	-15° C	6.5 – 7.5
FFFP	3%	1.16 ± 0.02	-15° C	6.5 – 7.5
FFFP	6%	1.16 ± 0.02	-15° C	6.5 – 7.5
FFFP (Alcohol Resistant)	3%	1.16 ± 0.02	-7° C	7.8
FFFP (Alcohol Resistant)	6%	1.16 ± 0.02	-7° C	7.8
High Expansion Foam	2%	1.02	-5° C / -25° C	6.5 – 8.5

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM GENERATOR MOBILE & FIXED TYPE



Unparalleled Innovation in **FIRE** Protection

FOAM GENERATOR (MOBILE & FIXED TYPE)



31 - 3M (MOBILE TYPE)

31 - 3F (FIXED)



SFFECO Model 31-3M and 31-3F is a high expansion foam generator which is suitable for total flooding applications (eg. Basements, mines, tunnels, cable ducts, warehouses). It is powered by water turbine and aerofoil fan, all that is required for operation is a pressurized water supply and a high expansion foam concentrate. Ideally suited for rapid smoke extraction and positive pressure ventilation.

Water Pressure, Bar	Discharge, Water LPM	Discharge Foam CFM
4	210	3300
7	300	6000
10	385	7800

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM MASTER



Unparalleled Innovation in **FIRE** Protection

SFFECO 150L Foam Master is ideal for rapid deployment of foam to flammable liquid fires and chemical spills. It can be operated by one person.



FOAM MASTER

Components

- Foam Tank - Carbon Steel, Stainless Steel also available.
- Foam Eductor - 2", 1% - 6% Adjustable Proportioning.
- Foam Branch Pipe
- Fire Hose - 1 3/4" dia or 1 1/2" 15M (Nos.)
- Foam Branch Pipe with Ball Valve
- Options - Special foam nozzles and branch pipes available as per request.

Typical Performance Data

Input pressure at Inductor, Bar	Total Water Flow LPM	Total Foam Produced LPM	Foam Throw Foam Branchpipe, M	Duration time for Foam Setting at 3% approximate
5	180	1800	15	28min.
6	198	1980	17	26min.
7	215	2150	19	23min.
10	260	2600	20	20min.

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO Foam / Water Cabinets Model SF/9000



Unparalleled Innovation in **FIRE** Protection



Foam / Water Cabinets

MODEL: SF / 9000

SFFECO Foam/Water Cabinet Model SF/9000 characterized for its high performance for attacking class A, B Fire within seconds. Designed for single man operation. Highly efficient in gas stations, petro-chemical plants, industrial premises, warehouse and in any areas, requires protection from class A, B fires

CABINET DESIGN:

Cabinet and door leaves are made of electro-galvanized steel of thickness 1mm to 2mm, which depends upon the use and customer requirements.

Cabinets are with all around folded edges without any sharp edges and burrs. The roof is slop type.

Cabinet painting is done by electrostatic powder coating process, oven baked to temperature between 160°C – 200°C.

Operating instructions are silk screen printed in English and Arabic inside the cabinet doors.

Stainless Steel model also available upon request.

Unparalleled Innovation in **FIRE** Protection

CABINET COMPONENTS:

Superior quality, 100% synthetic jacket hose, the outer fabric is made of circular woven synthetic fiber and root proof yarn, while inner layer is a substance of tropical rubber applied by means of a special vulcanizing technique ensures long life, elasticity and flexibility. Hose size 1.5X30 meter length, wrapped on swinging hose reel.

Hose reel is made of 1.2 mm electro-galvanised steel sheet and pressed out. The outer edge of the reel is rolled over to give a safe handling edge on the outer rims. The reel is mounted on swinging arm.

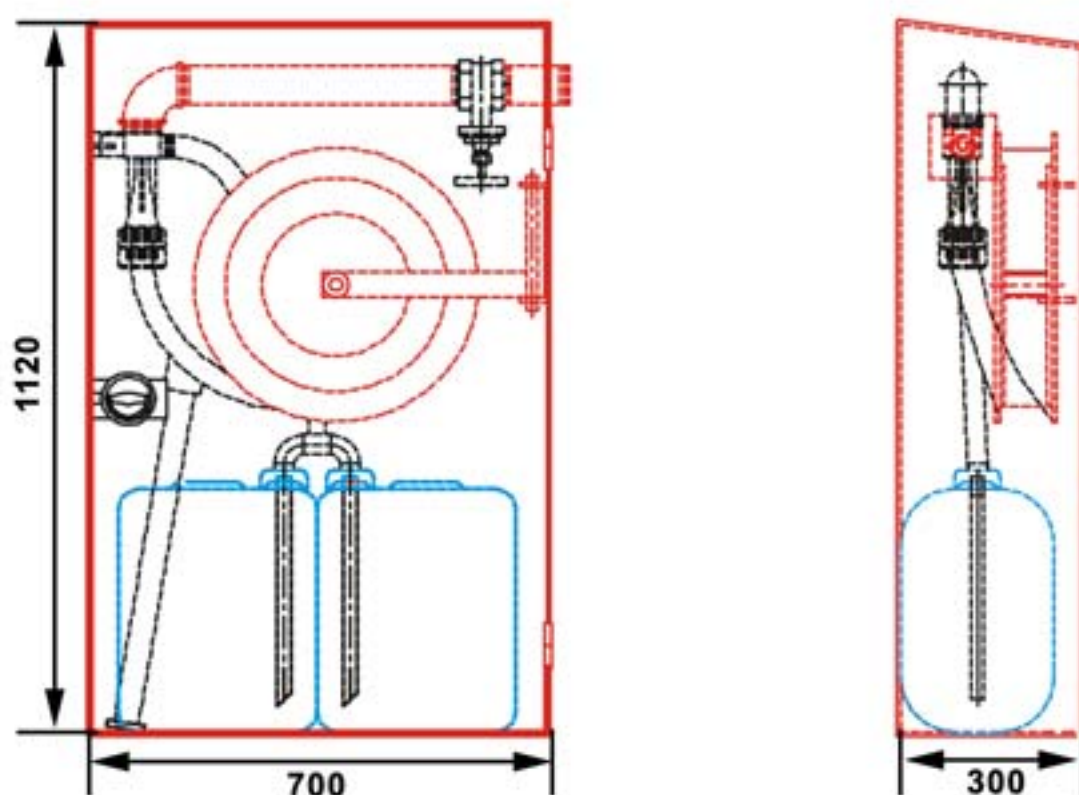
2" Brass, control gate valve 2" Foam proportioner, inductor. The design of the inductor enables an exact mixing rate of the passing water equipped with bypass system.

Foam branch pipe with shut of control valve made of stainless steel, handle made of hard rubber, can throw foam between 15-20 meter depends on line pressure. Also can be used as water jet pipe.

2 nos. Canisters, each with 20 liter 3% foam concentrate. Different types of foam concentrates are available on request

Note: Model SF/10000 Series, same as above but with 1.5" X 30 meter hose mounted on hose rack.

Optional: Both models with stand: We have full capacity in manufacturing any type or model of foam cabinet as per your designs and specifications.



Model	Height	Width	Depth
SF/9000	1120 mm Sloped Roof	700 mm	300 mm

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

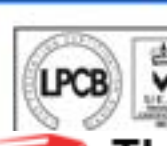
Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



SFFECO FOAM POURER



Unparalleled Innovation in **FIRE** Protection



FOAM POURER

Sffeco Model Foam Pourer is an effective and fast way to deliver high quality medium expansion foam into bunded region around bulk fuel storage tank in the event of fire or spillage. Once it is kept beside the bund and operation is started there is no need for further supervision.

Model	Inlet Pressure Bar	Discharge m ³ /min
600	2.5	24
1200	2.5	48
1800	2.5	72

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM TRAILER



Unparalleled Innovation in **FIRE** Protection



FOAM TRAILER

Class of Fire



Specification

Material	Trailer	– Carbon Steel
	Foam Tank	– Stainless Steel
	Monitor & Nozzle	– Bronze Casting / Al. Alloy Casting
Finish	Red Colour	
Capacity	Flow Rate – 500 GPM at 3.5 Bar	

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO FOAM EDUCTOR



Unparalleled Innovation in **FIRE** Protection



FOAM EDUCTOR

Design Features

Material : Bronze.

Stainless Steel & Aluminium Alloy available on request

Finishing : Red Painted.

Model	Size	Flow Rate (LPM at 7 Bar)	Nozzle
SF-28 S	1 1/2"	100-200	SF-17
SF-28 B	2 1/2"	350-650	SF-18, SF-18B, SF-19A, SF-31-2
SF-29	2 1/2"	600-950	SF-14B, SF-15B
SF-30	1"	50	

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh 14334

P.O. Box 4441 - E-mail : riyadh@sffeco.com.sa

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh

Tel. 00966 1 2063294 - Fax. 00966 1 2063295

P.O. Box 4441 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E

Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322

E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307

Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968

Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969

Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



SAUDI FACTORY FOR FIRE EQUIPMENT



FIRE HYDRANTS



& HYDRANTS CABINETS

WET TYPE FIRE HYDRANT



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.

TECHNICAL FEATURES:

The hydrant material is cast iron. The entire hydrant is made by casting.

The 4" shell hydrant is made according to BS750 standard.

Two numbers of 2½" hydrant landing valves with cap and chain are provided with the hydrants.

The valves are of NST threads and normally PN20 rating.

(Other pressure ratings are available upon request).

PILLAR DRY TYPE FIRE HYDRANTS



DRY BARREL DESIGN eliminates damage to the Hydrant caused by freezing or corrosion of the upper part.

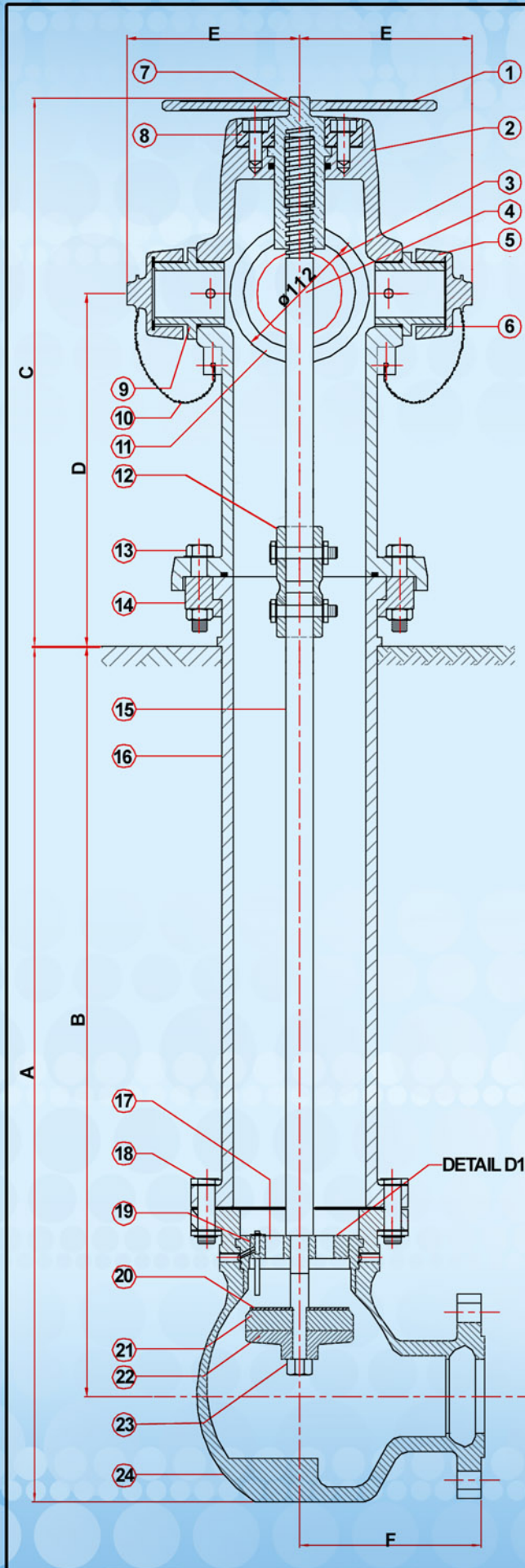
BREAK AWAY DESIGN to prevent accidents to the Hydrants, where only the upper part of the Flange will be broken upon impact .

Designed as per AWWA C502, which applies for the wall thickness, loss of head and hose connection plugs.

Simple rugged construction and easy to maintain.

Ductile Hydrants available upon request.

PILLAR DRY TYPE FIRE HYDRANTS SPECIFICATION



Model	A	B	C	D	E	F
100 SFH-800	895	800	610	400	200	190
100 SFH-1200	1295	1200	610	400	200	190
100 SFH-1500	1595	1500	610	400	200	190
150 SFH-800	895	800	610	400	220	240
150 SFH-1200	1295	1200	610	400	220	240
150 SFH-1500	1595	1500	610	400	220	240

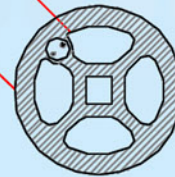
Note:

☞ All Dimensions in mm.

☞ Tolerance ± 10 mm.

116mmø

158mmø



D1

Item	Qty.	Item	Material
1	1	Handle	Gray casting
2	1	Body	Grey casting
3	1	Plummer coupling cap	Grey casting
4	1	Upper stem	Mild Steel
5	2	Coupling cap	Gery casting
6	2	Coupling gasket	3 THK Buna synthetic rubber
7	1	Operating unit	Gun metal
8	1	Cover	Gun metal
9	2	Coupling nipple	Gun metal 2 1/2" NST
10	2	Coupling cap chain	M.S
11	1	Plummer coupling	Gun metal
12	1	Stem coupling	Grey casting
13	8	Claw bolt	Steel (M16 x 80 L.G)
14	9	Claw	Grey casting
15	1	Lower stem	Mild Steel
16	1	Spool or reel (Stand pipe)	Grey casting
17	1	Valve plate	Gun metal
18	8	Bottom bolt & nut	M16 x 70 LG. (HEX.) (Mild Steel)
19	1	Drain valve	Gun metal
20	1	Retainer plate	M.S
21	1	Rubber valve	Synthetic rubber
22	1	Bottom plate	Gray casting
23	1	Nut	M.S
24	1	Elbow	Grey casting

Option: Inner Parts can be stainless steel upon request

HYDRANT CABINETS



SHC/750 SERIES



SHC/800 SERIES

MODEL	L	W	D	Height of legs
SHC/750 Series	1000 mm	800 mm	250 mm	600 mm
SHC/800 Series	1500 mm	800 mm	250 mm	100 mm

STANDARD EQUIPMENT

- 2 pcs-Fire Hose Size 2.5"x100feet synthetic rubber lined with NST Brass Couplings. Aluminum coupling available upon request.
- 2 pcs-Hose Nozzle 2.5 NST Thread
- 1 pc-Adjustable Hydrant Wrench
- 1 pc-Pin Lug Spanner Wrench
- Fire Axe
- 4 pcs-2.5" Rubber Gasket for Hose Couplings

OTHER ACCESSORIES ARE AVAILABLE UPON REQUEST

- Extra Fire hose 2.5" or 1.5". Double jacket Hoses.
- Crow Bar
- 2.5" Underwriters Play Pipe
- Flashing Light
- Torch

DESIGN CABINET:

- Cabinet doors are made of 1.2mm steel sheet with all edges rounded.
- Corrosion Protection-cabinets are primed and painted with Electrostatic Powder Paint oven baked to protect against rust.
- Cabinet is designed to be weather-proof.
- All instructions are silk-screened on the Cabinet. No sticker.
- Other special series or equipments are available upon request.

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

The Leading Manufacturer of Fire Protection Equipment

...SFFECO

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh 14334
P.O. Box 4441 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 4441 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



SFFECO INLINE - PROPORTIONER



Unparalleled Innovation in **FIRE** Protection



INLINE - PROPORTIONER (INDUCTOR)

SFFECO Line Proportioner offers a simple, inexpensive method of proportioning when the water supply pressure is reasonably high. Each proportioner is designed for a set water discharge rate at a set water pressure. However, higher or lower inlet water pressures result in an increase or decrease in water flow with a change in proportioning.

Model	Size – Inlet/Outlet	Flow Rate Outlet (LPM at 7 Bar)
50*	2"	75-225
65*	2 1/2"	200-450
80*	3"	400-900
100*	4"	750-1750
150*	6"	1600-2750

Test pressure : 25 Bar - Finishing : Red or Natural Fin
Connection Flange : ANSI B16.5 Class 150#

*Specify B Bronze / A Aluminium / S Stainless Steel

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



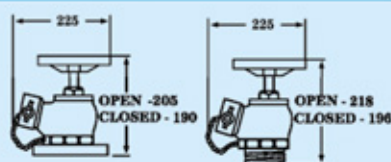
LANDING VALVES

FOR WET & DRY RISER SYSTEM

SFFECO landing valves are manufactured according to BS5041 and are available in thread or flanged end inlet and outlet in 65 mm \varnothing instantaneous to BS 336. SFFECO produces various types of landing

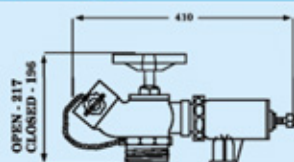
valves such as screw oblique landing valve, flanged oblique landing valve, screw right angle landing valve, flanged right angle landing, flanged straight through landing valve and double outlet landing valve.

OBLIQUE LANDING VALVE



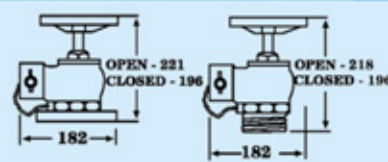
Model No	Type
SDR 097	Screw Thread
SDR 098	Flanged End

OBLIQUE PRESSURE REGULATING VALVE



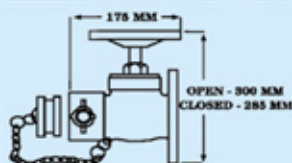
Model No	Type
SWR 117	Screw Thread
SWR 122	Flanged End

RIGHT ANGLE LANDING VALVE



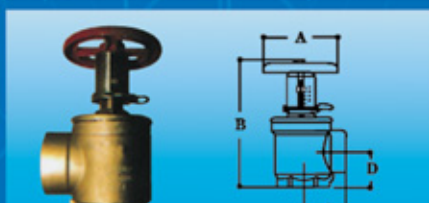
Model No	Type
SDR 105	Screw Thread
SDR 106	Flanged End

STRAIGHT THROUGH LANDING VALVE



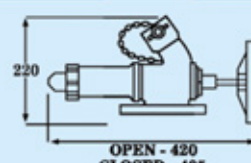
Model No	Type
SDR 107	Screw Thread
SDR 108	Flanged End

PRESSURE REDUCING ANGLE VALVE 175 lb. RATED



Size	1 1/2"x1 1/2"	2 1/2"x2 1/2"
A	4 1/16"	5 1/8"
B	7 1/16"	10 7/16"
C	2 3/16"	3 5/16"
D	1 7/8"	2 4/16"
Model No		Type
S-PRV 155*		Female NPT Inlet and Outlet Brass Valve, UL listed
* A for 1 1/2" x 1 1/2"		
* B for 2 1/2" x 2 1/2"		

'E' TYPE PRESSURE REGULATING VALVE



Model No	Type
SWR 121	Screw Thread
SWR 120	Flanged End

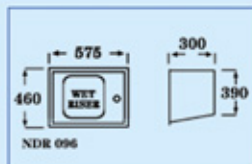
Specification :

Body	: Copper Alloy
Handwheel	: Grey Cast Iron
Inlet	: 65mm \varnothing flanged or screw thread.
Outlet	: 65mm \varnothing instantaneous to BS 336.
Test Pressure	: 327 psi (22.5 Bar)



DRY RISER EQUIPMENT & WET RISER EQUIPMENT

2-WAY BREECHING INLET CABINET

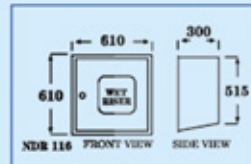


Model No: SDR 096

Specification

Cabinet	: Mild Steel.
Glass	: Wire Meshed Reinforcement.
Finish	: Red.
Installation	: Wall Recess Mounted.
Lettering	: Any language.

4-WAY BREECHING CABINET

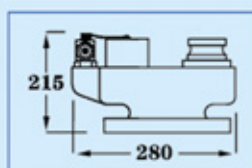


Model No: SDR 116

Specification

Cabinet	: Mild Steel, Stainless Steel.
Glass	: Wire Meshed Reinforcement.
Finish	: Red.
Installation	: Wall/Recess Mounted.

2-WAY BREECHING INLET

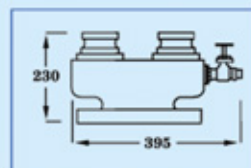


Model No: SDR 095

Specification:

Body	: Spheroidal Graphite Iron
Inlet	: Copper Alloy
Outlet	: Flanged table E,D or 16/21

4-WAY BREECHING INLET

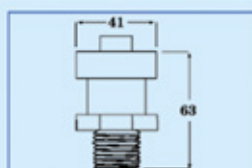


Model No: SWR 115

Specification

Body	: Grey Cast Iron or Spheroidal Graphite
Outlet	: Flanged table E,D or 16/21 of BS4504.
Inlet	: Copper Alloy

AIR RELEASE VALVE



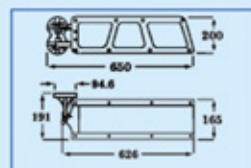
Model No: SWR 103,104

Specification : Copper Alloy

Test Pressure : 350 psi.

Model No	Inlet connection
SWR 103	20mm (3/4") Ø BSP
SWR 104	25mm (1") Ø BSP

HOSE CRADLE



Model No: SWR 81

Specification

Body	: Aluminium Alloy
Capacity	: 1 length 2 1/2" Ø x 30m Hose.
Swing at	: 180° horizontally

The products specified in this brochure is subject to continual development and improvement. Information in this brochure is subject to alteration without notice. All dimensions in mm unless otherwise specified.

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - P.O. Box 58469 - Riyadh 11515

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

E-mail : riyadh@sffeco.com.sa

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E

Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322

E-mail: dubai@sffecointl.ae

Riyadh : Tel. 00966 1 2063294 - Fax. 00966 1 2063295

Jeddah : Tel. 00966 2 6706009 - Fax. 00966 2 6760307

Dammam : Tel. 00966 3 8351961 - Fax. 00966 3 8351968

Madina : Tel. 00966 4 8660959 - Fax. 00966 4 8660969

Bahrain : Telefax. 00973 17 721153



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO LOW EXPANSION FOAM BRANCHPIPIES



Unparalleled Innovation in **FIRE** Protection

SFFECO model Low Expansion Branch pipes are air aspirating type made of aluminium tube and cast bronze. It is ideal for use with all foam types on deck gun or fixed monitor with foam pick up hose. Foam expansion rate up to 14.



☛ **SF-17**

1 1/2" NH female swivel inlet base, full foam and waterway through aluminium tubing, 305LPM @ 7 Bar.

☛ **SF-18**

2 1/2" NH female swivel inlet base, 660LPM @ 7 Bar other spec. are same as SF-17

☛ **SF-18B**

2 1/2" NH female swivel inlet base with hand operated ball valve, 660LPM @ 7 bar

☛ **SF-19A**

2 1/2" NH female swivel inlet base, 660LPM @ 7 bar other spec. are same as SF-17

☛ **SF-19Q**

2 1/2" quick coupling, 400/650LPM @ 3.5 Bar other spec. are same as SF-17

☛ **SF-19GM (Powerful foam cannon)**

3" NH female swivel inlet base, 500 GPM @ 7 bar

☛ **SF-19GM-A (Powerful foam cannon)**

3" NH female swivel inlet base, 750 GPM @ 7 Bar and 1000 GPM Optional

☛ **SF-19-E (Electric operation)**

All specifications are the same as model SF-19GM-H

☛ **SF-19GM-H (Electro-Hydraulic operation)**

2 1/2" (3" optional) NH female swivel inlet base, 500 GPM @ 7 bar and 1000 GPM optional. 3 kinds of operation method and blabber mouth, manual operation, electric operation and electro hydraulic operation.

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

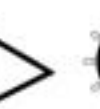
Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO MINI FOAM GENERATOR



Unparalleled Innovation in **FIRE** Protection



MINI FOAM GENERATOR

SFFECO Model 500 Mini Foam Generator is a fast response high expansion foam generator and smoke extractor. Easily maneuvered and can be operated by one person.

Inlet Pressure Bar	Expansion Ratio	Discharge Foam m ³ /min
2.8	260:1	40
4.2	290:1	56
5.6	320:1	70
7.0	330:1	80
8.4	360:1	94

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO MOBILE FOAM UNIT



Unparalleled Innovation in **FIRE** Protection



MOBILE FOAM UNIT
Capacity : 150L - 2000L
(Higher capacities available on request)



Components

- Foam Tank - Carbon Steel / Stainless Steel
- Foam Eductor - 2 1/2" Aluminium Alloy, 3% Proportioning (6% Optional)
- Working - Diesel Engine Driven Pump
- Foam Branch Pipe with ball valve
- Fire Hose - 2 1/2" dia 15M/30M
- Foam Level Indicator
- Optional - Break Systems, Special Rear Lights

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com

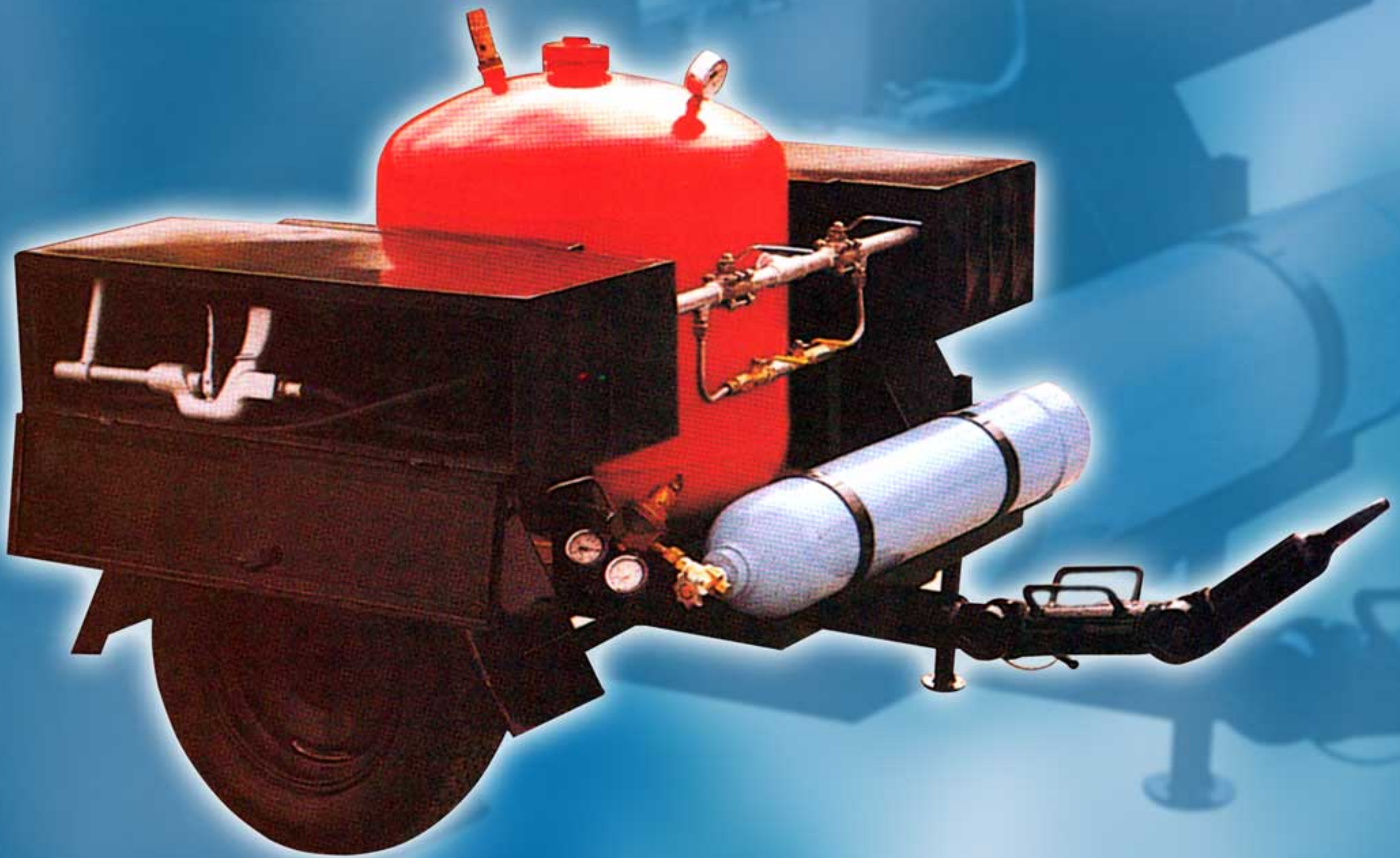


This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



SFFECO

Unparalleled Innovation in Fire Protection



Mobile Dry Powder Fire Extinguishing Trailers

Model: SP 250/SG 250

SFFECO Mobile Dry Powder Fire Extinguisher Trailers Model SP 250 & SG 250 are characterised of their Robust design, high efficiency in extinguishing power due to the excellent extinguishing dry powder agents.

APPLICATIONS:

Petrochemical and Chemical Industries, Energy Supply Installation, Airports, Factories, Shipping and Warehousing Facilities, Fuel Depots, Military Bases and for protection of larger objects with high risk of fire formation.

TECHNICAL SPECIFICATION:

Extinguishing Agent Container:

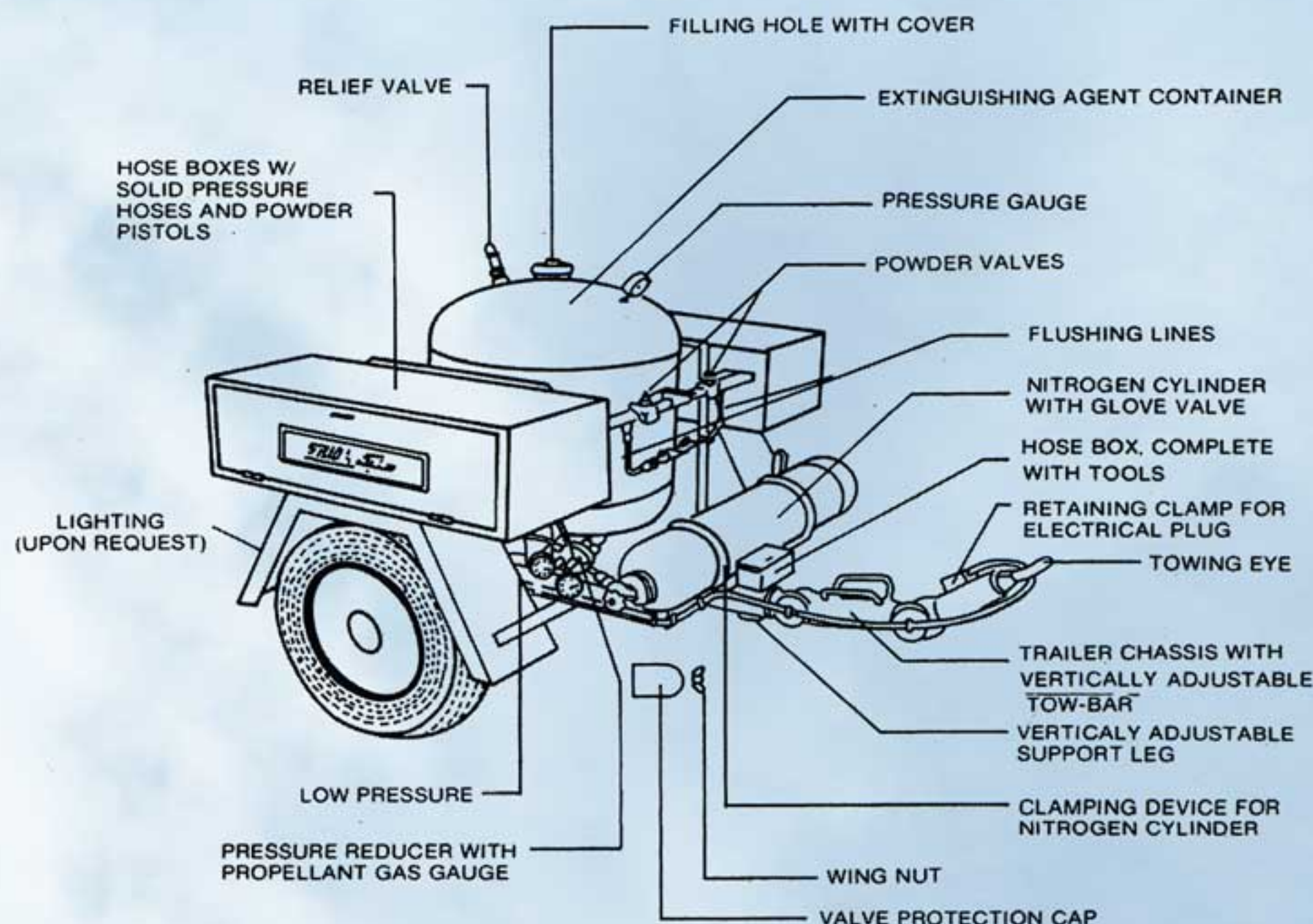
Pressure container made of special oiled steel sheet according to international specification of pressurised vessels, equipped with filling hole, safety valve and pressure gauge to indicate the pressure on cylinder under operation

Nitrogen Cylinder:

27 Litre of compressed nitrogen cylinder, charging pressure about 200 Bar.

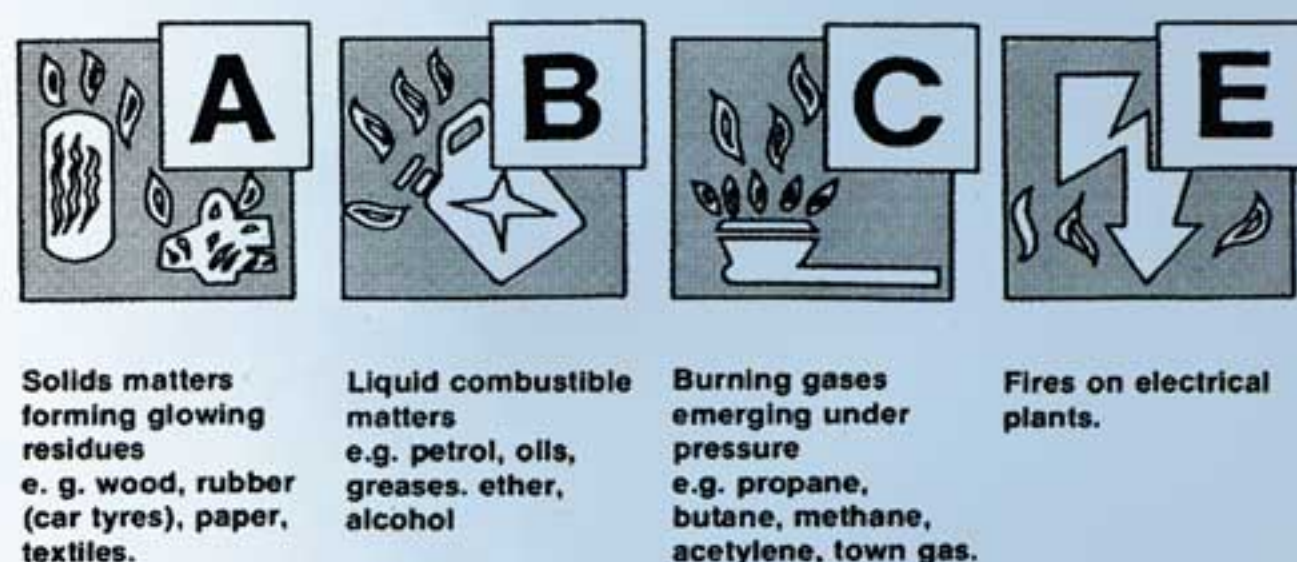
Trailer Chassis and Superstructures:

The travelling mechanism comprise one torsion bar spring axle two wheels vertically adjustable tow bar with towing eye equipped with tubeless rubber tyres and vertically adjustable traction pole, 2 mudguards, 2 hose boxes each hose length 20 M with special dry powder gun lightings on rear available upon special request.



Type	SP 250	SG 250
Classes of Fire	ABCE	BCE (E upto 1000V)
Total Weight	±590 Kgs	± 590 Kgs
Capacity of Extinguishing Agent	250 Kgs.	250 Kgs.
Extinguishing Agent	Dry Powder	Dry Powder
Propellant	27 Ltr. Nitrogen (N2)	27 Ltr. Nitrogen (N2)
Working Pressure	13 Bar	13 Bar
Container Test Pressure	24 Bar	24 Bar
Length of Hose	2 high pressure hoses of 20 m each	2 high pressure hoses of 20 m each
Temperature Range	-40 Deg. C	-40 Deg. C
For Operational Safety	Up to +60° C	Up to +60° C
Duration of Discharge (uninterrupted)	ca. 140 sec. 1 pistol. 70 sec. 2 pistols	ca. 140 sec. 1 pistol 70 sec. 2 pistols
Range of Discharge	8-12 m. adjustable	8-12 m. adjustable

Types of Fire:



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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com

SFFECO MONITORS



Unparalleled Innovation in **FIRE** Protection

SFFECO monitors are directional devices suitable to be used for aircraft hangars, truck loading racks, wharfs or dock. Oscillating monitors are water powered requiring only 2 GPM of foam solution or water to drive the mechanism. The remote controlled monitor is a directional discharge device that can be operated by a joystick at a remote location.



Model SF-20A (Portable Monitor)	Model SF-23A (Fixed Monitor)	Model SF-26A (Fixed Monitor)	Model SF-26S (Fixed Monitor)	Model SF-RCM 26 Remote Controlled)
Type: Lever Operation	Type: Lever Operation	Type: Double Wheel Operation	Type: Single Wheel Operation	Type: Electric Operation
Size:	Size:	Size:	Size:	Size:
Inlet-FE 65 female thread	Inlet – 2 ½" flanged	Inlet – 3", 4" (ANSI 150F.F.) flanged	Inlet – 3", 4" (ANSI 150F.F.) flanged	Inlet – ANSI 4", 150F.F. flanged
Outlet-FE 65 or FE 40 Male Thread	Outlet – FE 65 Male Thread	Outlet – FE65 Male thread	Outlet – FE 65 Male Thread	Outlet – FE 65 (2 ½") male thread
Material : Aluminium alloy Casting & Bronze	Material: Bronze	Material: Bronze	Material : Bronze	Material : Bronze
				Driving range: (Up & Down 90° & 45°)
				Rotation: 340°

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO PRESSURE PROPORTIONER



Unparalleled Innovation in **FIRE** Protection



PRESSURE PROPORTIONER (RATIO CONTROLLER)

SFFECO Pressure Proportioner is used to produce constant present foam solution in pressure proportioner systems. It is available in various flow rates. As mentioned in this table is rated pressure 14 Bar.

Model	Flow Rate (LPM)	Size / Inlet / Outlet
80*	270-3000	3"
100*	650-5700	4"
150*	1200-9500	6"
200*	3200-18500	8"

Test pressure : 25 Bar, Finishing : Red epoxy painted
Connection flange : ANSI B 16.5 Class 150#
* Specify B Bronze / S Stainless Steel

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

FIRE FINALLY DOES NOT STAND A CHANCE



P R E S E N T I N G

PREVENTO[®]

extinguishing / impregnating gel

Prevento[®] extinguishing / impregnating gel is a unique extinguisher additive. It is all the protection you need against fire hazards in garages, workshops or anyplace where work with open fire or heat needs to be carried out. It is also very easy to use by anyone. Just fill the refillable sprayer and spray.

Tried, tested and developed in Europe, Prevento[®] extinguishing / impregnating gel is now available exclusively in the United Arab Emirates through Techniq International.



PREVENTO®

extinguishing / impregnating gel

Why Prevento® extinguishing / impregnating gel makes good safety sense

- The gel like water stays longer at the fire and extends the cooling
- The needed amount of water can be significantly reduced
- By impregnating at the same time the fire cannot be reignited
- Used together with foaming agents Prevento is applicable on burning liquids too
- Can be used to prevent ignition and reduce spreading of fire
- Can be efficiently used on problematic substances like rubber, plastics, hydraulic oils and special use oils



Why Prevento® extinguishing / impregnating gel system is better than usual extinguishers:

Complete Safety Solution

- Easy handling
- Quickly applicable
- Robust plastic container
- Up to 6 liters fillable
- Can be refilled
- Prevention of incipient fires by spraying
- Protection from fire expansion by impregnation
- Extinction of fires through longer effective periods
- Convenient refilling by the user
- No expensive maintenance and checks
- Constant availability by using fail-proof technology
- Long service life and approved quality

Authorized Distributor

SAUDI FACTORY FOR FIRE EQUIPMENT



Factory: 2nd Industrial Area - P.O. Box 58469 - Riyadh 11515
Tel. 00966 1 2650070 - Fax. 00966 1 2652190
E-mail : riyadh@sffeco.com.sa
International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Riyadh : Tel. 00966 1 2063294 - Fax. 00966 1 2063295
Jeddah : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain : Telefax. 00973 17 721153



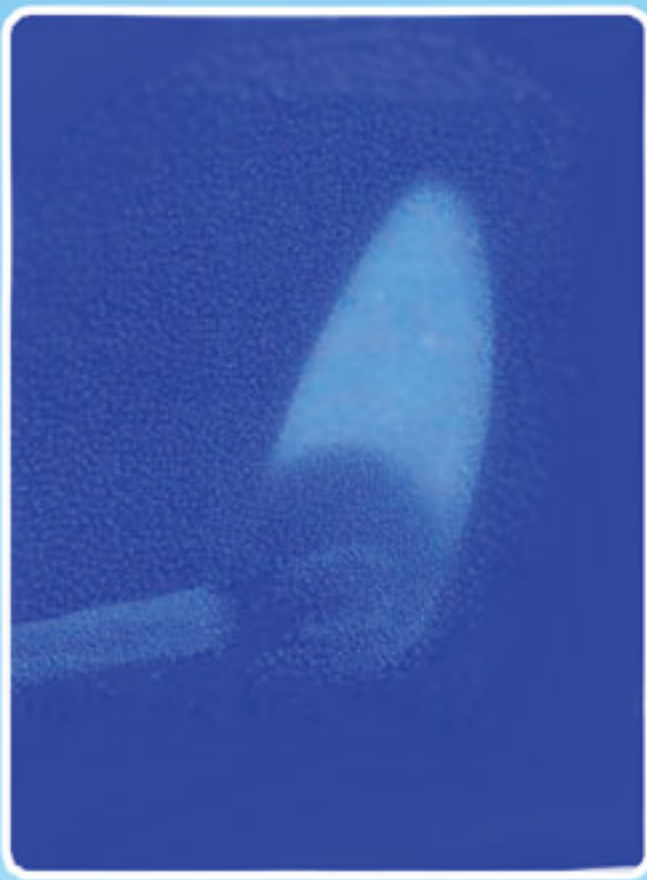
This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO

FIRE HOSE REEL CABINETS



Protect
your
investment



SFFECO is one of the leading company based in Riyadh, Kingdom of Saudi Arabia, specialized in the manufacturing of a wide range of fire protection equipment. SFFECO is committed to achieving the highest level of quality in all of its products and services. With this as the aim we maintain a quality system to ISO 9001. SFFECO is certified to ISO 9001 by TUV of Germany & LPCB of UK.

SFFECO has been awarded with License No: KM 73087 to use KITEMARK by British Standard Institute (BSI), United Kingdom for HOSE REELS conforming to BS EN 671 – 1.

Also SFFECO range of Portable Fire Extinguishers displays the BSI Kite Mark and conforms to BS EN3 standards; SFFECO has received the license to use the wheel mark for EN Extinguishers for use in Marine Applications as per Marine Equipments Directive (MED) 96/98/EC and amended by 2002/75/EC. SFFECO products are exported all over Europe & African countries.

Technical Features of Cabinets

- 🔥 Manufactured from steel or stainless steel, with thickness of 1mm to 2mm.
- 🔥 Hose reel drums pressed on hydraulic press to form ribs for strength and durability to avoid twisting while handling.
- 🔥 Outer edges rolled over for safe handling and aesthetic appearance.
- 🔥 Rubber hose with maximum work pressure of 15 bar and burst pressure more than 50 bar.
- 🔥 Hose reels in cabinets are fully equipped with landing valves and nozzle.
- 🔥 Cabinet door handles are of stainless steel and turn handle chrome plated.
- 🔥 Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.
- 🔥 Cabinets can be surface mounted, recessed or semi recessed.
- 🔥 Cabinets of stainless steel also available with hairline or mirror finish.
- 🔥 Different styles available to meet architectural requirements.

Swinging Type Hose Reel Model SF/30



Open wall swinging hose reels are available in two models. Manual model SF/30 and automatic model SF/30A are equipped with ¾" or 1" rubber hose. Standard rubber hose is available in black color. Optional red color hose is available on request. Swinging type hose reels are used in schools, hospitals, commercial centers, etc.



Model SF300



Model SF300M



Model SF300S



Model SF600



Model SF600S

Fire Cabinet SF 300

Cabinets made of steel.

Rubber hose of 30 meter available in manual and automatic model.

Available in different sizes & design to meet architectural requirements.

Fire Cabinet SF 300M

New design from SFFECO.

Cabinets made of steel.

Available in manual and automatic models.

Fire Cabinet SF 300S

Cabinets made of stainless steel no 316L

Manual and automatic models.

Available in different sizes & design.

Cabinets in stainless steel with hairline or mirror finish available on request.

Fire Cabinet SF 600

Available in manual and automatic models.

Two door steel cabinets, one is equipped with hose reel and the other with fire extinguisher.

Fire Cabinet SF 600S

Similar to SF600 but in stainless steel.

Available in manual and automatic models.

Cabinets in stainless steel with hairline or mirror finish available on request.

Optional: Dry riser, Fire blanket or Fire axe can be fitted in place of extinguisher in SF600 / SF600S.

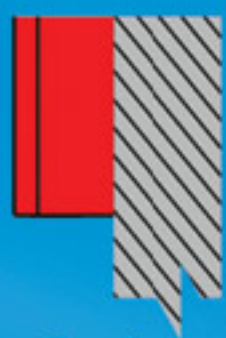
MODEL	INSIDE DIMENSIONS			WALL OPENING SIZE			MODEL	INSIDE DIMENSIONS				
	SURFACE, RECESS & SEMI-RECESS TYPE			RECESS & SEMI-RECESS (Approximately)				SURFACE TYPE				
	Width (mm)	Hight (mm)	Depth (mm)	Width (mm)	Hight (mm)	Depth (mm)		Width (mm)	Hight (mm)		Depth (mm)	
SF-300	800	800	220	820	820	230	SF-300M	700	Front	Back	260	
SF-300A	800	800	250	820	820	260			700	700		956
SF-300AS	800	800	250	820	820	260						
SF-305/20	700	700	200	720	720	210						
SF-305/30	700	700	250	720	720	260	SF-600M	700	700	956	260	
SF-305A	700	700	250	720	720	260						
SF-305AS	700	700	250	720	720	260						
SF-600	1050	800	220	1070	820	230						
SF-600A	1050	800	250	1070	820	260	SF-600S	700	700	956	260	
SF-600AS	1050	800	250	1070	820	260						

Note: All dimensions in mm.

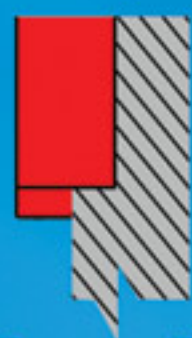
Note: All dimensions in mm.

YOU DECIDE... WE PROVIDE...

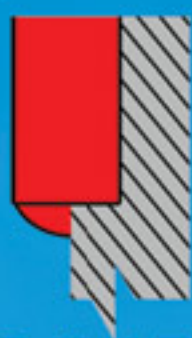
Step 1: Consider the wall depth & trim projection



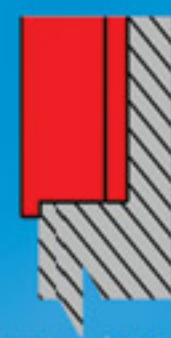
Surface Mounted



Square Trim Semi-Recessed

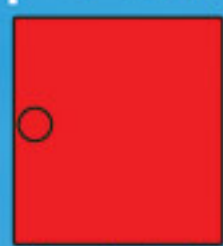


Rolled Edge Semi-Recessed



Flat Trim Semi-Recessed

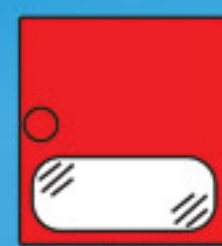
Step 2: Select the door style



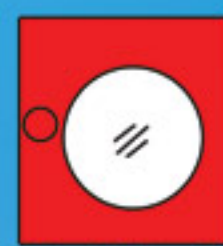
Model - F
Full Metal
Door



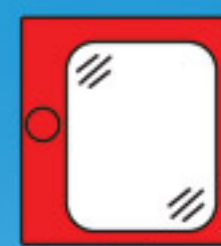
Model - V
Vertical
Glass Door



Model - H
Horizontal
Glass Door



Model - C
Circular
Glass Door

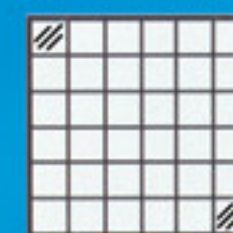


Model - G
Full
Glass Door

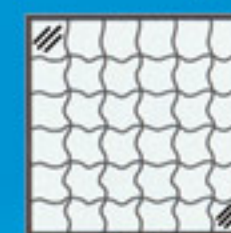
Step 3: Select the type of glass (Optional)



Clear
Transparent
Glass



Wired Type
Transparent
Glass



Wired Type
Translucent (mesh)
Glass

Step 4: Determine the cabinet finish

- 1) Red Colour
- 2) White Colour
- 3) Any other color
- 4) Stainless steel Hairline Finish
- 5) Stainless steel Mirror Finish

Nozzle for hose reel



Model A:

Plastic Nozzle with 3 way control.
Straight – Spray – Shut off.



Model B:

Brass & Chrome Plated with handle for
2 way control. Straight – Shut off.



Model C:

Brass & Chrome plated without handle for
3 way control. Straight – Spray – Shut off.

Landing valve



Body : Brass
Hand Wheel : Steel, Epoxy coated.
Sizes : 1", 1.5" & 2.5".
Working Pressure : 16 bar.

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

The Leading Manufacturer of Fire Protection Equipment

...SFFECO

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - P.O. Box 58469 - Riyadh 11515

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

E-mail : riyadh@sffeco.com.sa

Riyadh : Tel. 00966 1 2063294 - Fax. 00966 1 2063295

Jeddah : Tel. 00966 2 6706009 - Fax. 00966 2 6760307

Dammam : Tel. 00966 3 8351961 - Fax. 00966 3 8351968

Madina : Tel. 00966 4 8660959 - Fax. 00966 4 8660969

Bahrain : Telefax. 00973 17 721153

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E

Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322

E-mail: dubai@sffecointl.ae



www.sffeco.com

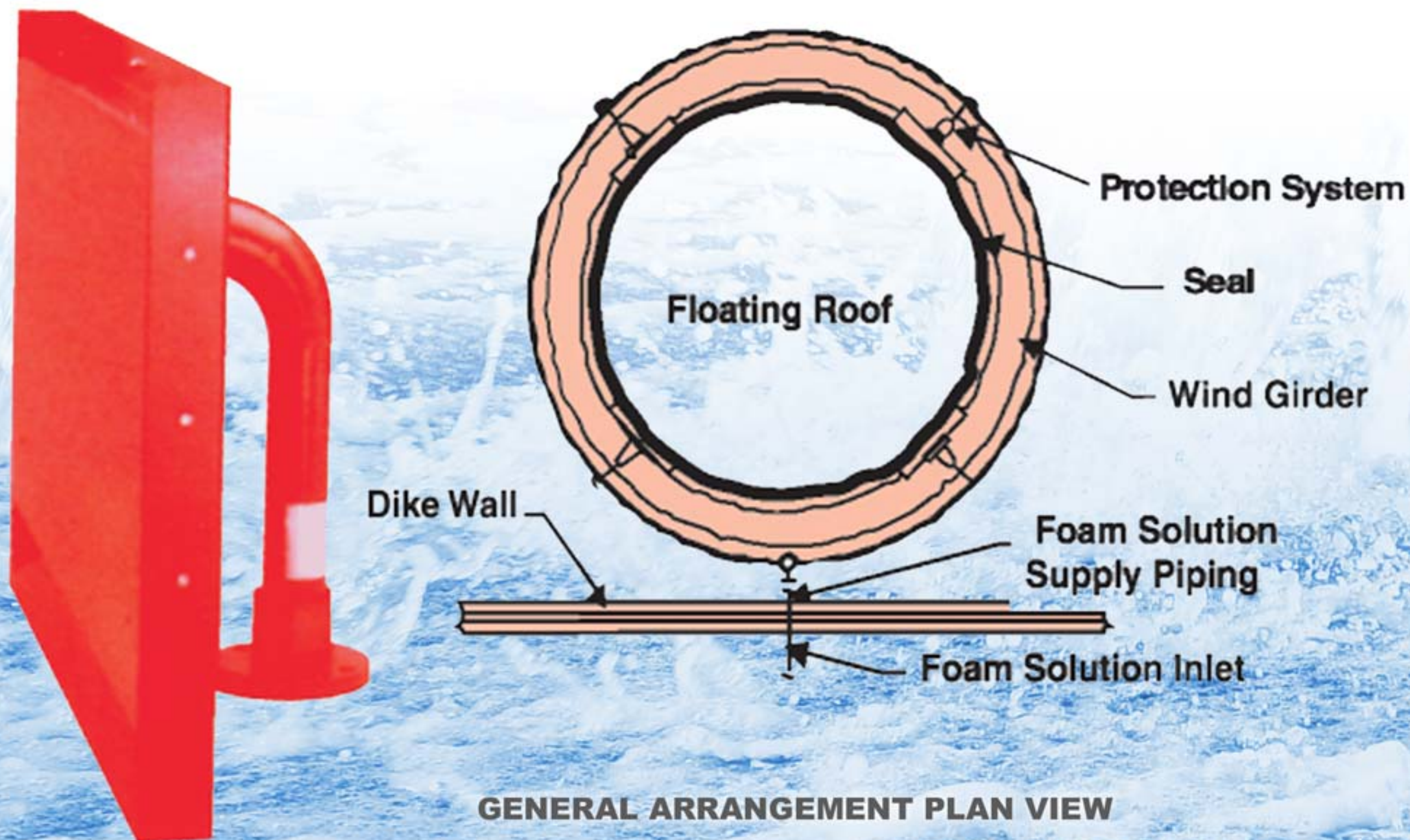


This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO RIM SEAL POURER



Unparalleled Innovation in **FIRE** Protection



SFFECO Rim Seal Pourer is designed to deliver fully aspirated foam directly to the annual seal area of Open Top Floating Roof Storage tank for fire extinguishment. Fully aspirated foam provides the most effective performance for all types of foam concentrates.

Finishing : Red Epoxy Paint - Materials: Carbon Steel

Cap : Apprx. 53 to 556 LPM

Model	Size In Millimeter
80	1050 X 650
100	1100 X 650

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com

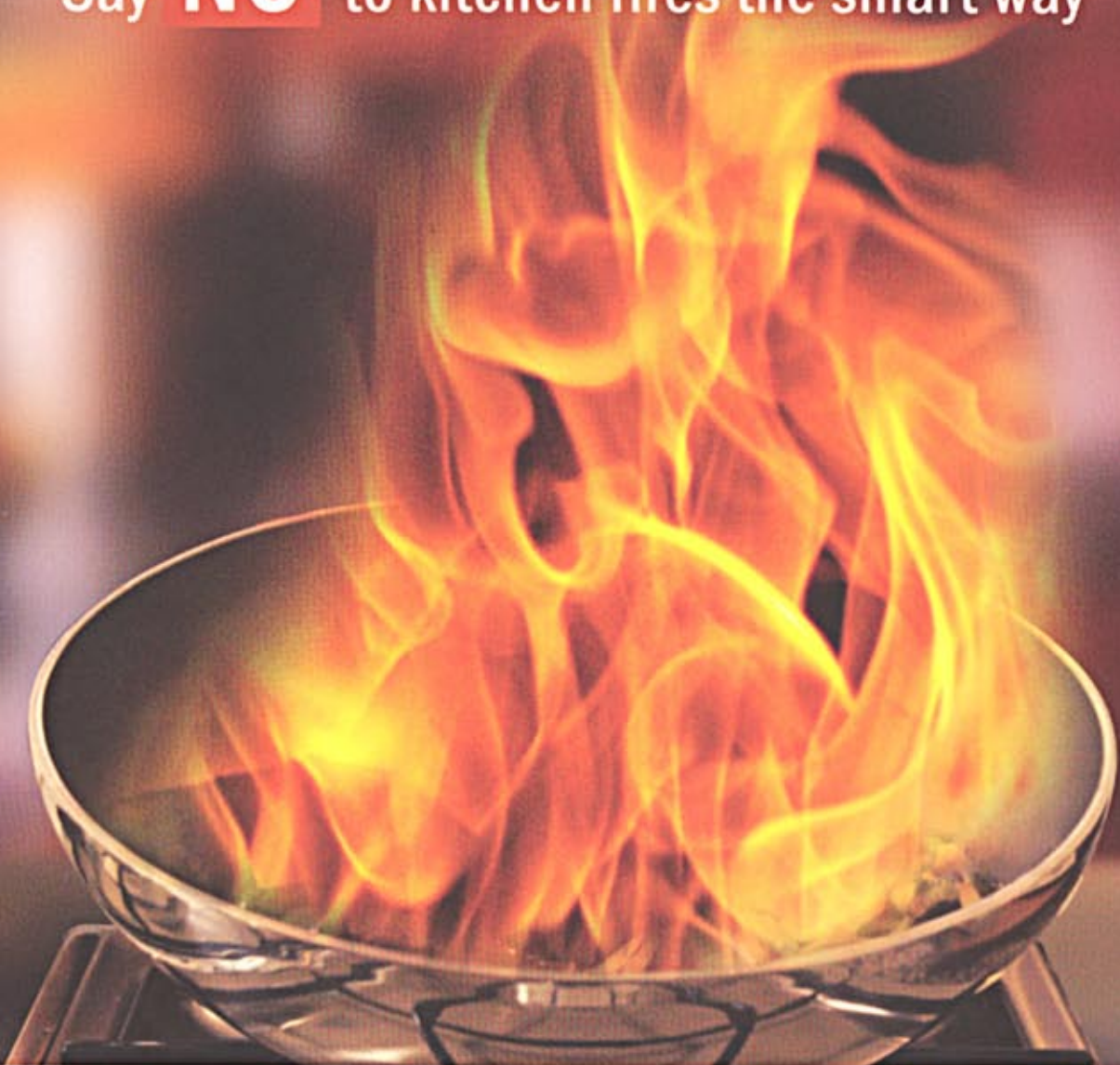


This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



The innovation against fat/oil fires.

Say **NO** to kitchen fires the smart way



SafeBall® is an innovative fire safety product developed in Germany by Febbex to help fight oil and fat fires in the kitchen effectively.

SafeBall® is exclusively distributed in the United Arab Emirates by Techniq International.



This PDF was created using the **Sonic PDF Creator**.
To remove this watermark, please license this product at www.investintech.com

The danger exists...

The danger of a fire in a kitchen always exists because of the oil or fat overheating; in fact fires can be caused simply by inexpertly draining cooking fat to be heated to the point of self-ignition.

The problems:

- Water is not a solution in this situation, because it induces the fat to explode with an enormous flash
- The fireball is extremely dangerous and can cause severe burns
- Fighting burning fat with blankets, wet towels, lids or powder and CO₂ extinguishers is ineffective and dangerous. Since the flames may douse, but the extreme heat usually re-ignites the hot fat

So does a solution

SafeBall®. Especially developed for fighting burning fat or oil. The SafeBall® system consists of several balls filled with a specially formulated extinguishing gel.

A special kind of gun propels the balls into the fire from a safe distance. Following which, SafeBall® takes over to extinguish burning fat or oil quickly and safely.

How SafeBall® extinguishes the fire

Step 1 - Cooling

- When SafeBall® is plunged into the burning fat, the wax cover melts releasing the gel-like extinguishing agent
- The water bound in this agent withdraws the energy from the burning fat and cools it down
- This reduces the fat's heat to a point where inflammation is no longer possible

Step 2 - Foaming

- The high temperature causes chemicals in the extinguishing agent to foam
- The low density of the foam rises to the surface to create a barrier between the burning fat and oxygen

Step 3 - Chemical Transformation

- The extinguishing agent converts the burning fat into non flammable soap (principle of saponification)
- Burning objects close to the fryer can now be put out without danger
- Even if water hits the fryer by mistake there is no explosion, only foaming

Principle of saponification:

Fat + water + alkaline substance + energy = non flammable soap!



Authorized Distributor

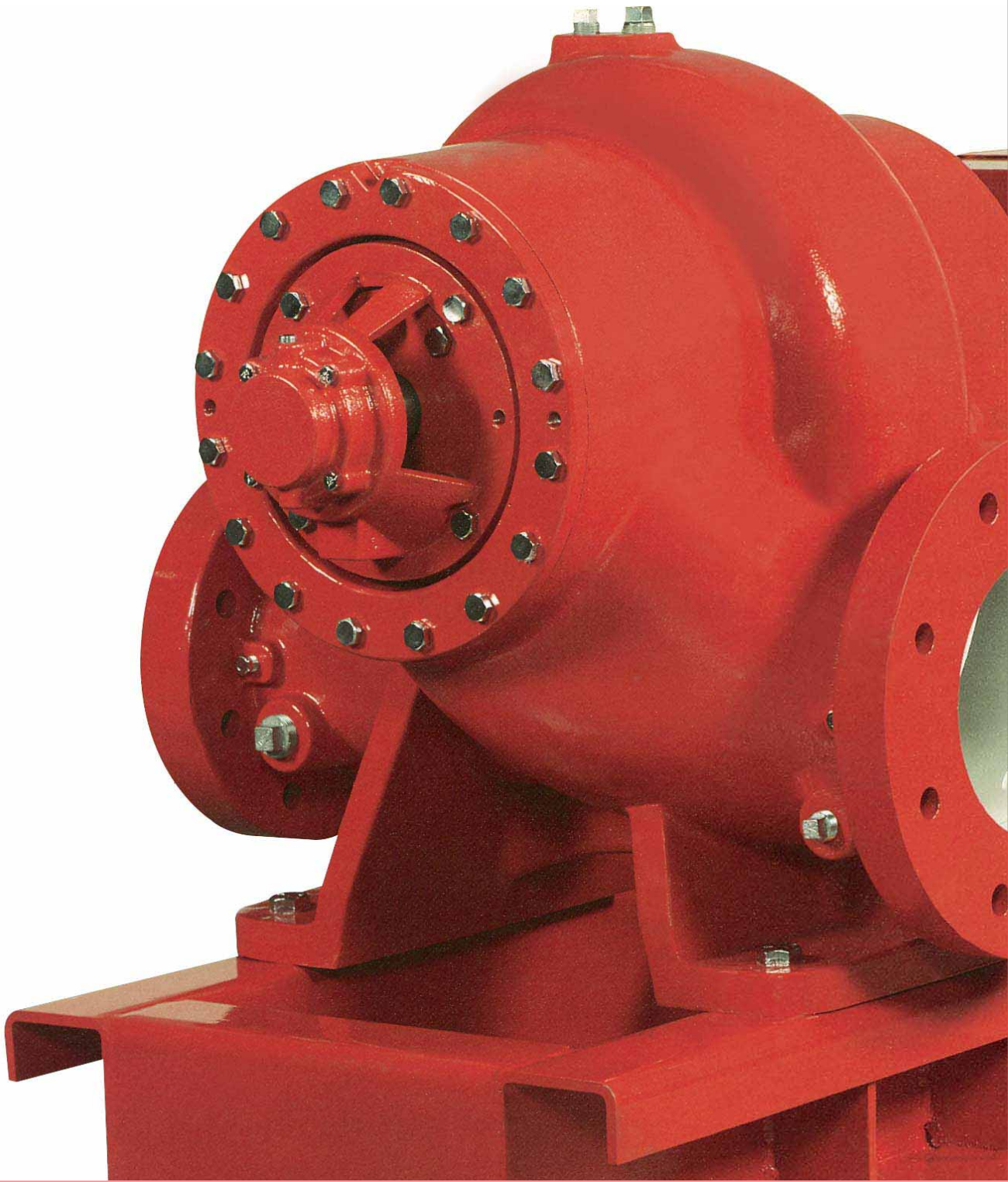
SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - P.O. Box 58469 - Riyadh 11515
Tel. 00966 1 2650070 - Fax. 00966 1 2652190
E-mail : riyadh@sffeco.com.sa
International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Riyadh : Tel. 00966 1 2063294 - Fax. 00966 1 2063295
Jeddah : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain : Telefax. 00973 17 721153




This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



SFFECO FIRE PUMPS





Company Insights

SFFECO began its operations in 1985 in the KINGDOM OF SAUDI ARABIA. Today our company reflects a steady growth, both in terms of size and manpower base besides the addition of a new range of products. Our prime objective is to satisfy the requirements of our customers. This is achieved by providing an array of high-quality products, which includes both standard types and customized designs products & services that exceeds beyond any customer's expectations.

Our state-of-the-art manufacturing facilities are ISO 9001 certified and are located in KSA, Middle East, with sales offices, service centers and representatives in the region. We have a well-equipped research and development department, wherein our focus is on hydraulics, cavitations, erosion, corrosion and mechanical design as well as product development. Our team of talented qualified engineers works in close association with our customers to implement innovative ideas for the improvement of products and processes throughout the total product lifecycle.

Our mission is to provide each of our valued customers and industries with varied pumping solutions which best suit their requirements.

contents

Company Insights	2
Fire pumps	3
Company Profile	4
Split casing pumps	
3D Model/Application	5
2D Model/Const. features	6-7
Selection of pumps	8
Section view with parts	9
Performance curves	10-14
End suction Pumps	
3D Model/Intro	15
2D Model with parts	16
Section view with parts	17
Selection of pumps	18
Performance curves	19-25
Vertical in line pumps	
3D Model/Application	26
2D Model with parts	27
Selection of pumps	28
Performance curves	29-30
Electric Motor	
Introduction/Features	32
Application modification	32-33
Diesel Engine	
Introduction/Features	34-35
Jockey pump	
Introduction	36
Specification/Part list	37
Selection/of pump & Performance curve 50Hz	38&39
Selection of pump & Performance curve 60Hz	40&41
Controller	
Introduction	42
Electrical/Diesel	43
Jockey/Alarm	44
Fire pump Accessories	
Introduction	45
Accessories lay out	46
UL System Accessories	46-49

Fire pumps

Lifeguards for your safety

A Fire pump is an essential element for all high rise buildings. Fire pumps are also a necessity in warehouses and facilities that do not have adequate city water pressure.

With more than two decades of experience, we design, test and manufacture fire pumps to cater to diversified needs of our customers. Our standard pumps can be manufactured in skid mounted units which are piped and wired. All the mounting is on a common base which also can be enclosed. The industry's most comprehensive types of pumps used for fire service include end suction, horizontal split case and vertical turbine models including stainless steel, cast iron and bronze construction in standard configurations are provided by us. Close coupled, frame mounted and SAE engine drive options are also available.

Futuristic safety designs

Our entire product line of pumps is developed by evaluating actual operating conditions and anticipating problems that meet the future requirements. Today the R&D back born gives the company the courage to imagine and the capability to execute it. As a packaged Fire Pump Systems we build engineered system that ensures quality requirements are recognized and integrated into every stage of manufacturing process from a simple pump and driver arrangement on a skid to a fully-enclosed system with choice of diesel or electric drivers and controllers with fitting as per NFPA 20.



Customized to match your requirements

Keeping your specifications in mind, Packaged UL/FM Fire Pumps are custom-made and designed with or without enclosures, with one or more pump/driver combinations, and include controls with inlet/outlet piping/valves and fittings as per NFPA 20. These fire pumps are re-wired packages that include a limited or full service controller. Every package is mounted on a steel fabricated base with motor and pump coupled and wired to the controller. The automatic air relief valve, casing relief valve suction gauge and discharge gauge are mounted on their respective spool pieces. If required additional piping, valves and sensing lines are available with some models, these will include jockey pump and jockey controller. Count on SFFECO for all your fire fighting needs will indeed assure that you get nothing but the best from us.

Great reasons to use SFFECO

One stop service and warranty for the whole unit.

Technical Support with service centres and sales office in middle east.

Short delivery period as our International Office is based in Dubai.

State of the Art Engineering Designs

Value Added Services for Customers

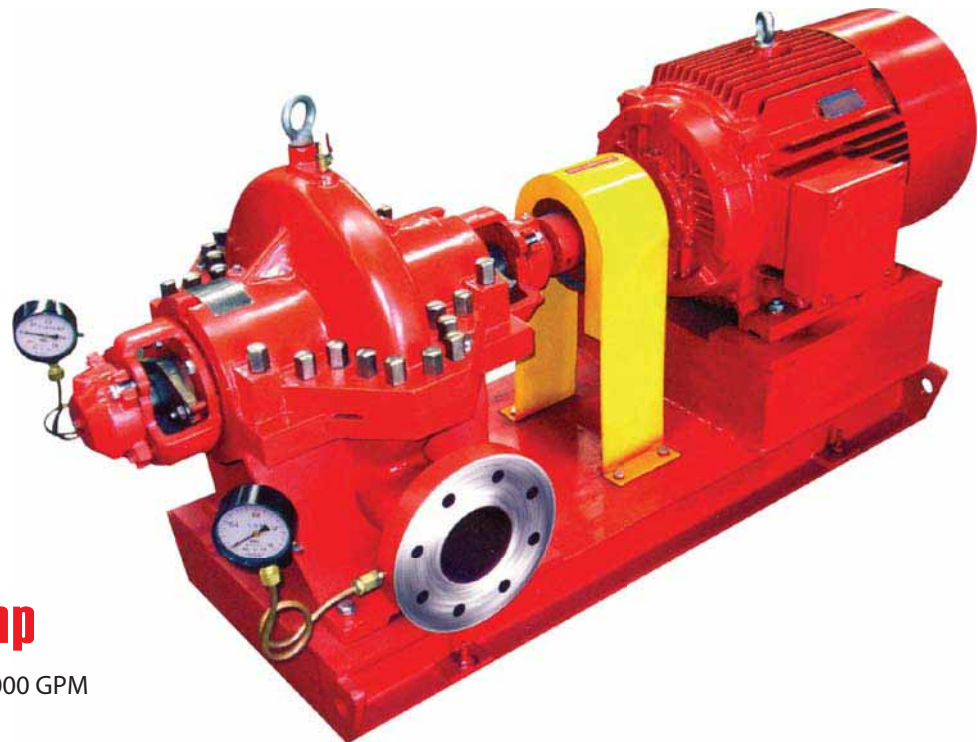
Network of Technical Support

ISO 9001 Manufacturing Facility

Member of International Organization:

- NFPA (National Fire Protection Association)
- BSI (British Standard Institution)
- ISC (International safety Council)
- AFSA (American Fire Sprinkler Association)
- FSSA (Fire Suppression System Association)
- FPA (Fire Protection Association)

In addition SFFECO has been chosen to represent the NFPA as an official agent in middle east.



Horizontal split case Pump

Capacity flow from 500 to 4000 GPM

UL listed

Pressures from 45 to 174 PSI

Application (UL listed for fire fighting system application)

Commercial pumps: Pumping systems, Sprinkler irrigation, Lift Irrigation, Water supply systems, Air conditioning systems, Environment systems, Refrigeration and A/C Systems, Air conditioning, Fluid handling, Refrigeration.

Industry Sector: Thermal power, Nuclear power, General Industry, Flood control, Pharmaceuticals, Chemicals, Fertilizers, Paints, Dyes, Paper, Sugar industry, Breweries, Aquaculture, Textile Mills.

UL listed. The impeller used is double-suction type offering low pulsation and is hydraulically balanced giving zero axial thrust in the pump.

Upper casing can be removed without disturbing piping and allows removal of the entire assembly, including both stuffing boxes and the bearing housing.

Each split casing is designed with suction and discharge nozzles on the lower half of the casing. This feature is designed where upper casing removal gives complete access to the rotating assembly for servicing without disturbing the piping system. The split is on the horizontal centerline and removal and replacing the stuffing box can be done without replacing the casing.

Bearing can also be removed from the pump without removing the rotating assembly providing more convenient features. The wear rings are designed with a large wear surface with the diameter wearing surface

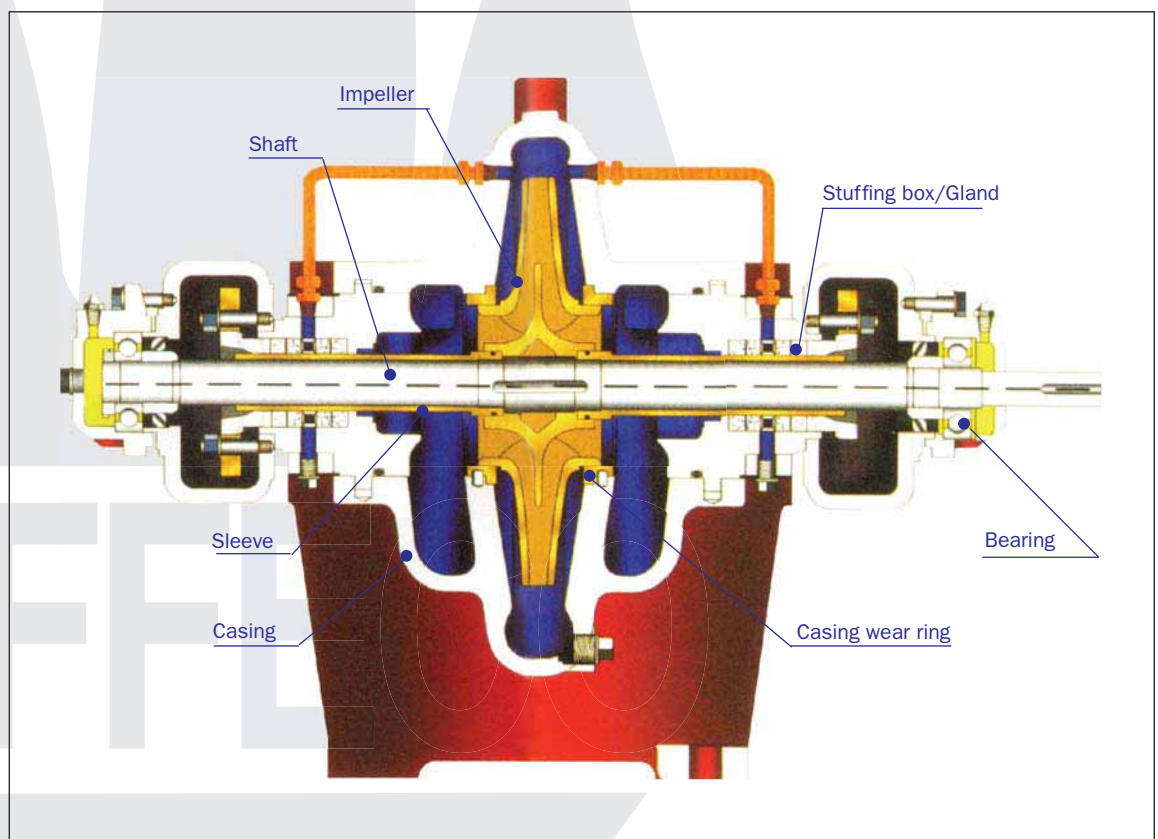
reduced to a minimum. Wear rings are secured by dowel pins. the impeller is an enclosed double suction and is keyed onto the shaft.

It is specially designed to meet the rigid mechanical and hydraulic specifications required by approval and listing by UL and FM for Fire Pump Service. Motor Horsepower ratings is selected such that in continuous operation it shall not exceed the full load rating of the motor over the entire pump curve, exclusive of motor service factor.

Horizontal Split Case type pump, with flexible type coupling and OSHA guard is mounted, with motor, on a fabricated steel base plate. Pumps shall be hydrostatically tested to 150% of the maximum pump working pressure.

The pump and motor shall be mounted and aligned at the pump manufacturer's factory on a common base plate. Final alignment shall be made, on site, after the pump is installed and brought to operating temperature.

Construction & Design Features (Standard)



Pump Casing : The casing is high quality cast iron. The casing is a split case design where suction and discharge connections, located in the lower casing, shall be flanged and of sizes indicated in the schedule and shall be drilled and tapped for gauge connections. Suction and discharge connections shall be on the same elevation. The top of the casing and the rotating assembly shall be removable without disturbing the piping connections.

Wearing Rings: The pump casing shall be fitted with replaceable bronze wearing rings. The case wearing ring is renewable when its wearing clearance reaches a minimal level, these are firmly retained in the casing by dowel pins.

Impeller: Bronze, double suction, fully enclosed type. Dynamically balanced.

Shaft: 420SS is designed for minimum deflection and vibration. The shaft sleeve is screwed on against the impeller with left and right hand thread that cannot work loose during operation.

Shaft Sleeves: Shall be stainless steel 322SS or form Bronze.

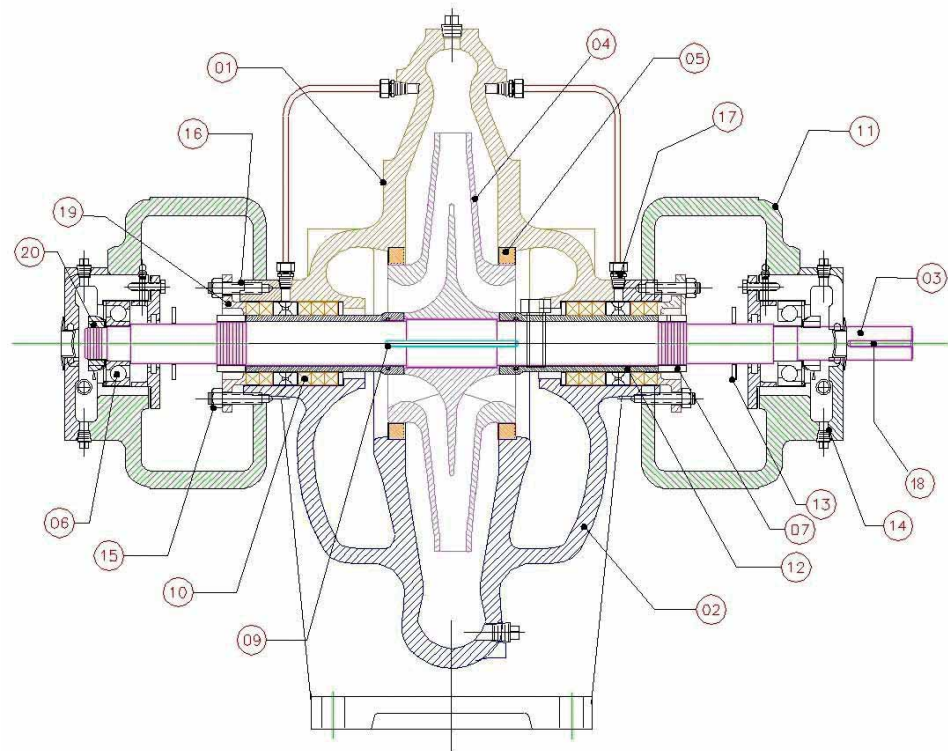
Bearings: Grease type lubrication ball bearing provide an L-10 rating at least 5000 hours at maximum load. Both in board and outboard ball bearing are single row, precision grade, cartridge mounted, permitting the removal of the shaft without disturbing the bearing assembly. Lip seals are used to prevent water getting into the bearing. Bearings shall be mounted in cartridge type housings that are replaceable without opening the pump casing. Bearings shall be removable by simply rotating the removal nut behind the bearing. No special tools or pullers are necessary for this purpose.

Stuffing box - Features a drip pocket with tapped drain outlet and is completely removable. This allows replacing the stuffing box without replacing the casing, gland packing is from braided graphite.

Centrifugal Fire Pump-Split Case

ITEM NO.	RATED HEAD (psi)	RATED HEAD Bar	RATED SPEED r/min	RATED CAPACITIES gpm	MODEL	SUC. DIA inch	DIS. DIA inch	MAX WORKING PRESSURE psi	STAG	TYPE
1	45~67	3.1~4.62	1450	500	SP125/38	6	5	290	1	5x6-15
2	70~100	4.8~6.9	1760	750	SP125/38	6	5	290	1	5x6-15
3	45~67	3.1~4.62	1450	1000	SP150/38	8	6	290	1	6x8-15
4	70~100	4.8~6.9	1760	1250	SP150/38	8	6	290	1	6x8-15
5	45~62	3.1~4.27	1450	1500	SP200/38	10	8	290	1	8x10-15
6	70~91	4.8~6.27	1760	2000	SP200/38	10	8	290	1	8x10-15
7	100~126	6.9~8.69	1760	500	SP100/48	5	4	290	1	4x5-18
8	85~116	5.86~8.0	1450	1000	SP125/48	8	5	290	1	5x8-18
9	125~174	8.6~12.0	1760	1250	SP125/48	8	6	290	1	5x8-18
10	84~114	5.8~7.86	1450	1250	SP150/48	8	6	290	1	6x8-18
11	124~165	8.55~11.38	1760	1500	SP150/48	8	6	290	1	6x8-18
12	92~114	6.34~7.86	1450	2000	SP200/48	10	8	290	1	8x10-18
13	135~168	9.3~11.58	1760	2500	SP200/48	10	8	290	1	8x10-18
14	138~153	9.5~10.55	1450	1500	SP150/56	8	6	290	1	6x8-22
15	74~84	5.1~5.8	1100	1500	SP150/56	8	6	290	1	6x8-22
16	120~142	8.27~9.8	1450	2500	SP200/54	12	8	290	1	8x12-21
17	64~76	4.41~5.24	1100	2000	SP200/54	12	8	290	1	8x12-21
18	107~113	7.38~7.8	1450	4000	SP250/50	14	10	230	1	10x14-20
19	60~65	4.13~4.48	1100	3500	SP250/50	14	10	230	1	10x14-20

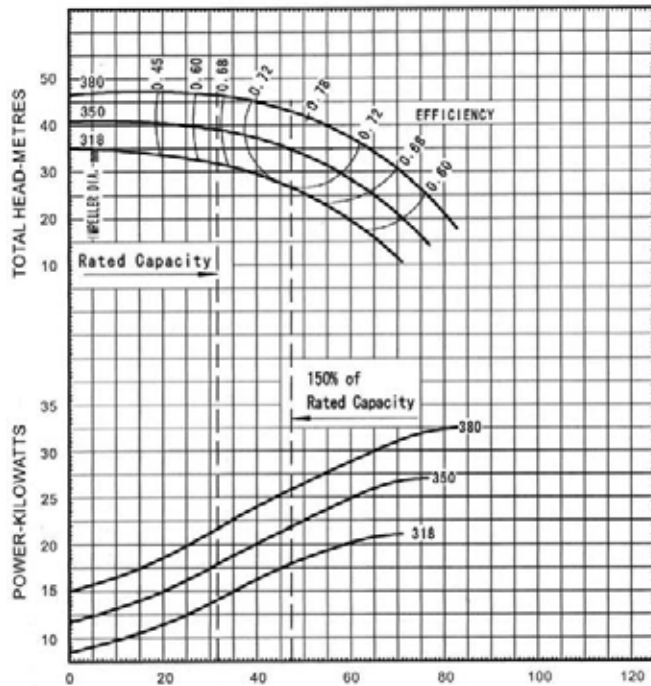
Sectional view and parts



1	upper casing half	11	bearing bracket
2	lower casing half	12	shaft sleeve
3	pump shaft	13	deflector wiper seal
4	impeller	14	bearing cover
5	wearing ring	15	gland nut
6	bearing	16	gland stud
7	shaft nut	17	pipe plug
8	stuffing box	18	pump coupling key
9	impeller key	19	gland holder
10	gland packing	20	shaft nut

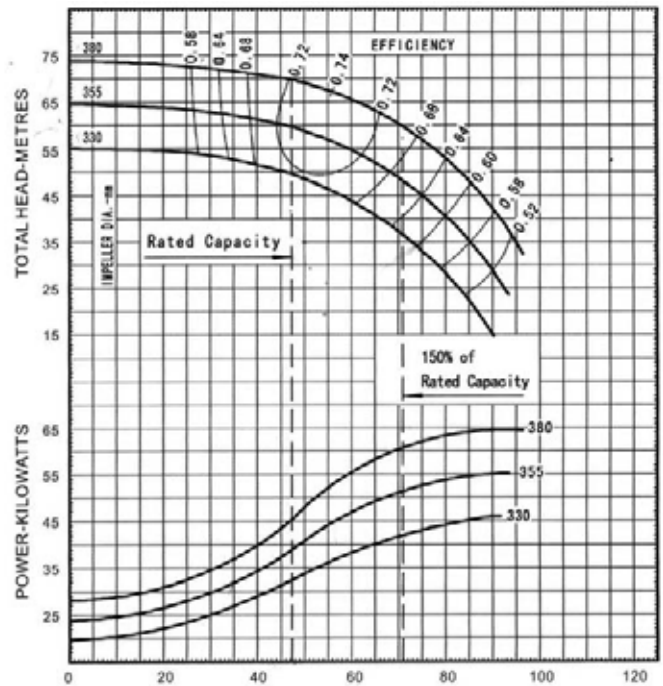
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP125/38	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S01	2



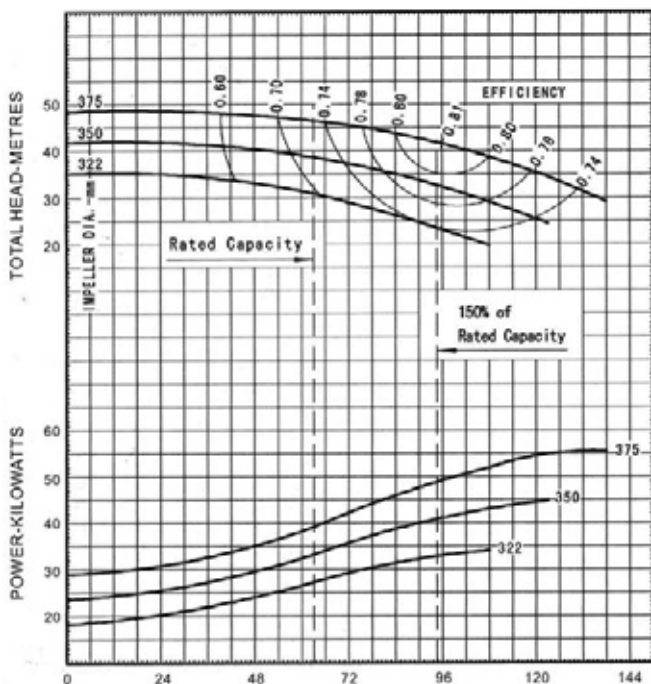
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP125/38	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S02	2



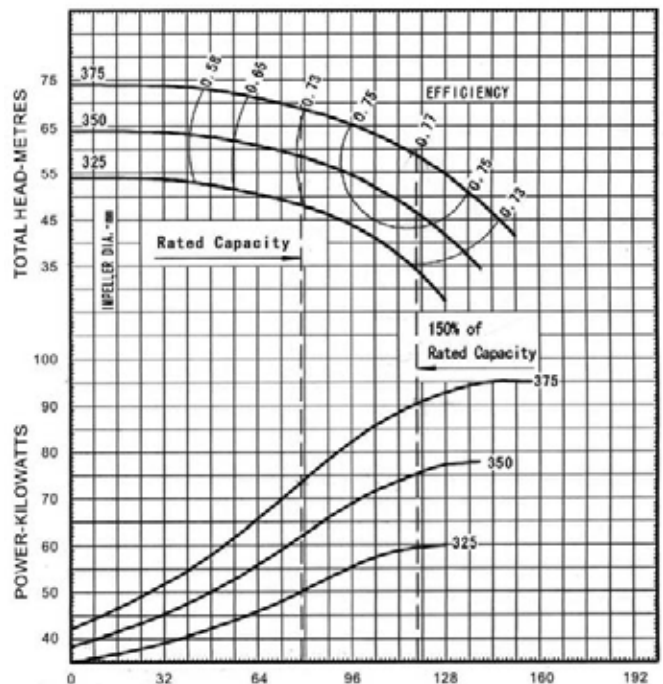
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP150/38	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S03	2



LITRES/SECOND

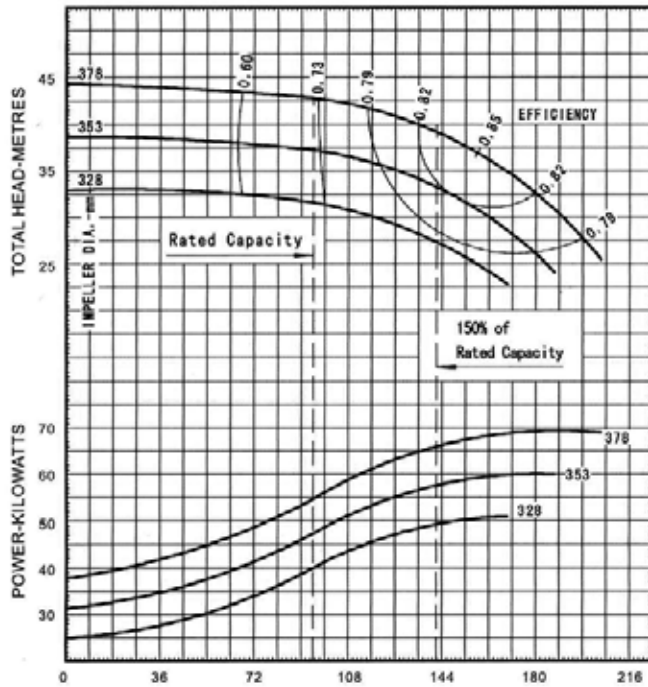
MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP150/38	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S04	2





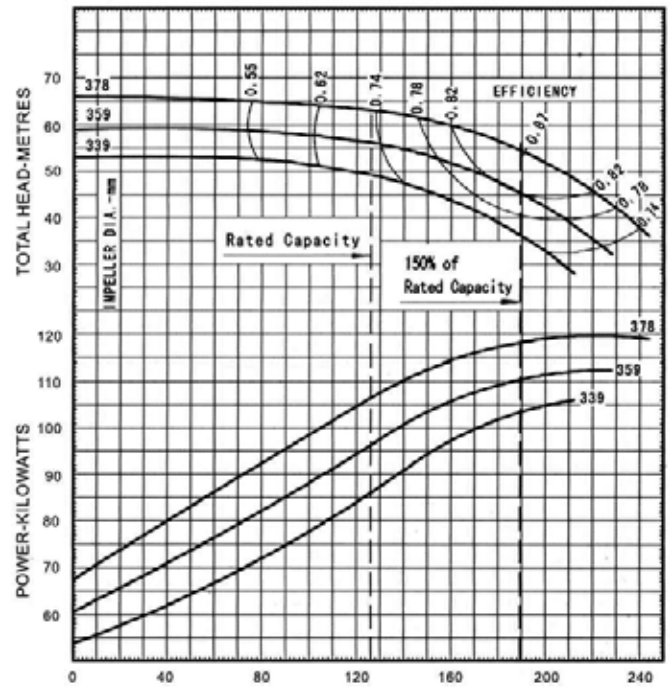
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP200/38	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S05	2



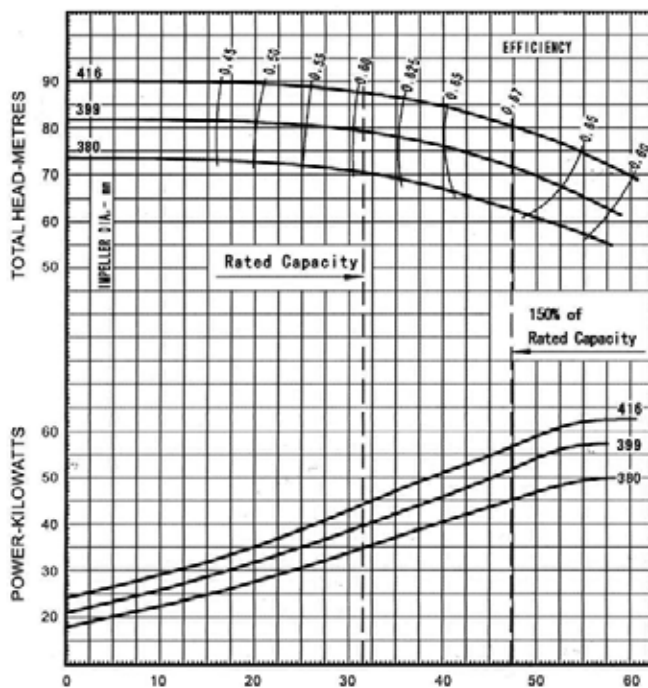
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP200/38	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S06	2



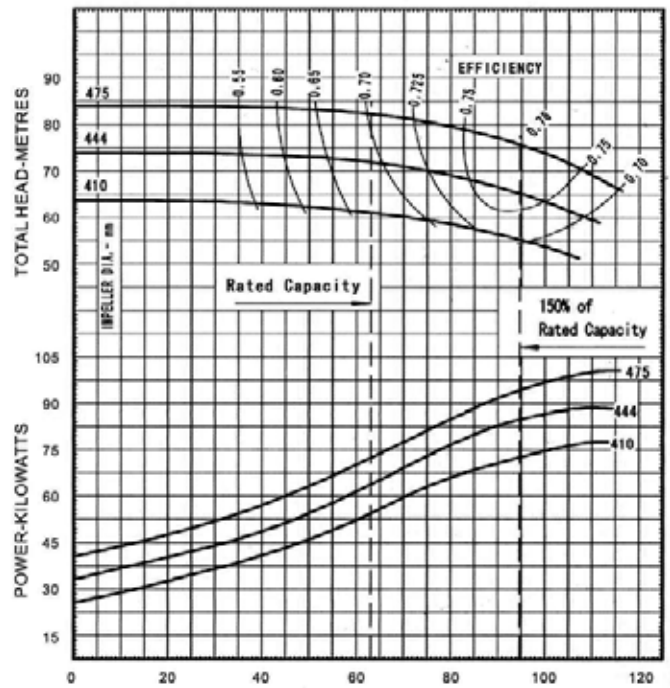
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP100/48	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S07	2



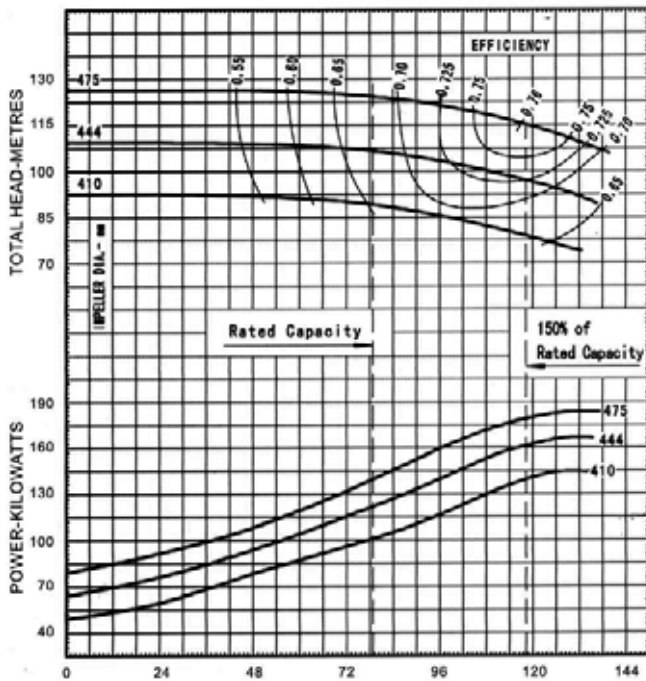
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP125/48	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-FM-S08	2



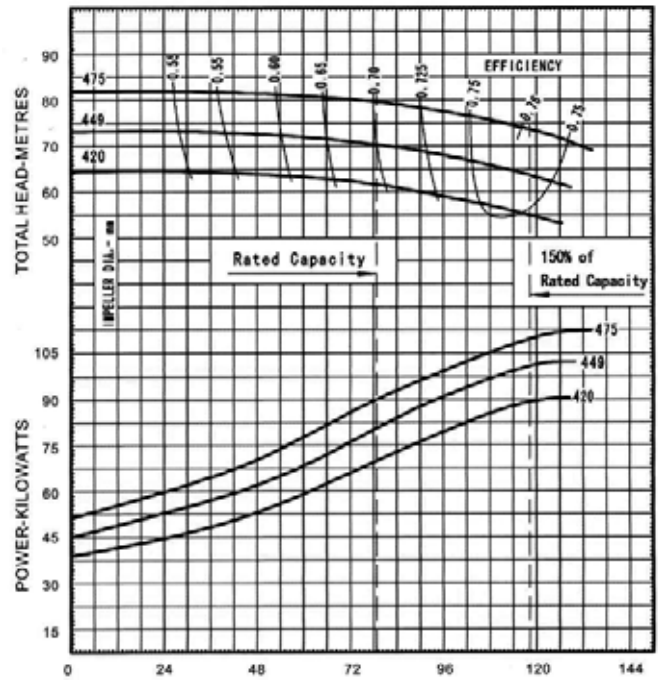
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP125/48	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-S09	2



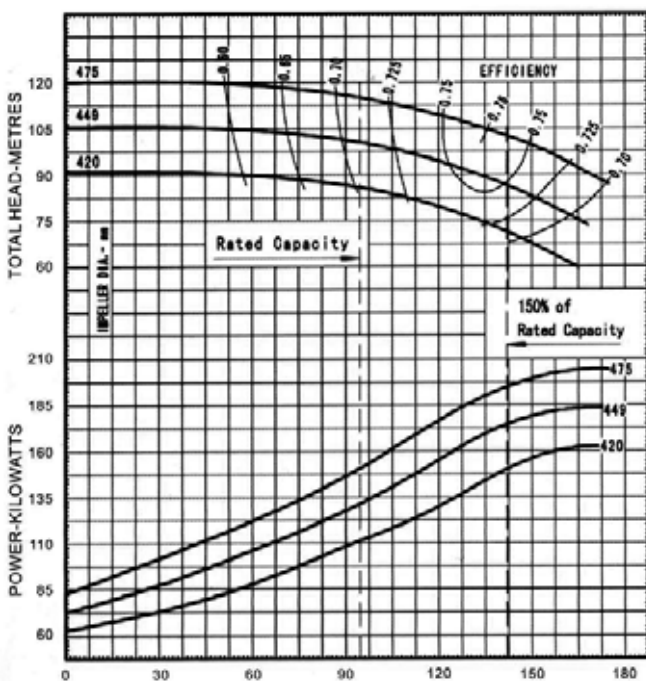
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP150/48	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S10	2



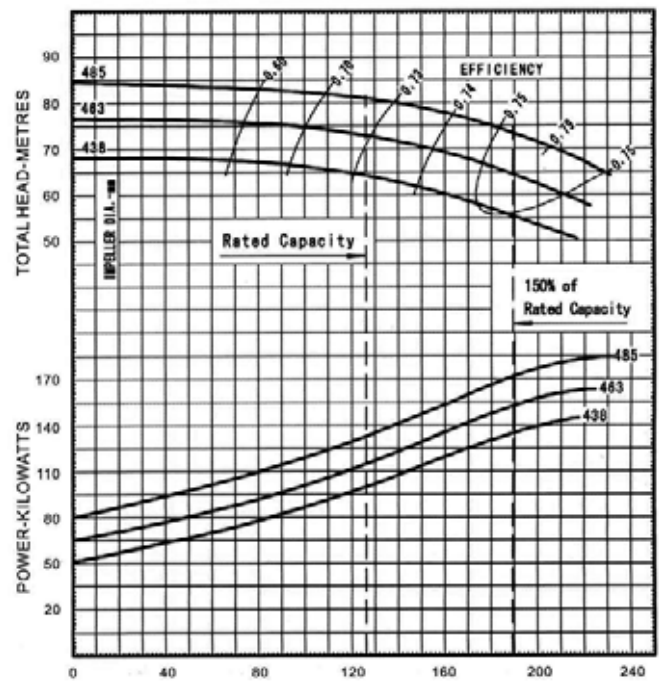
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP150/48	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S11	2



LITRES/SECOND

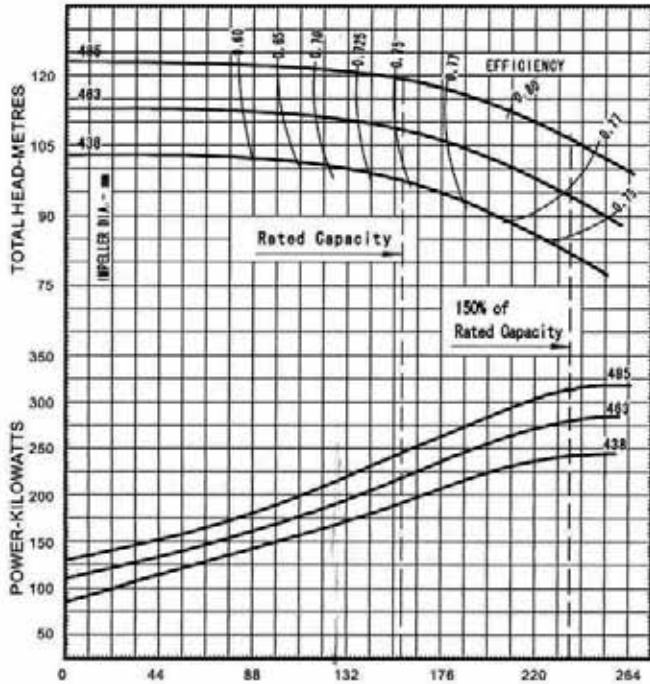
MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP200/48	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S12	2





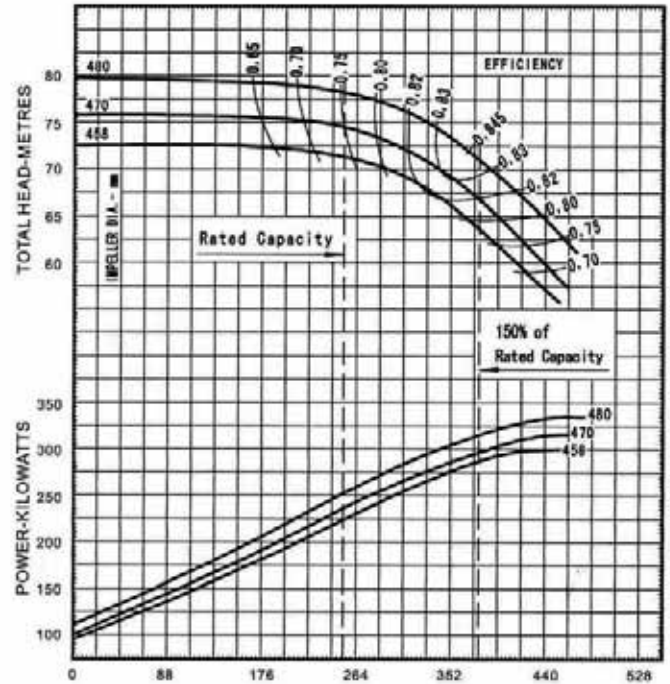
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP200/48	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S13	2



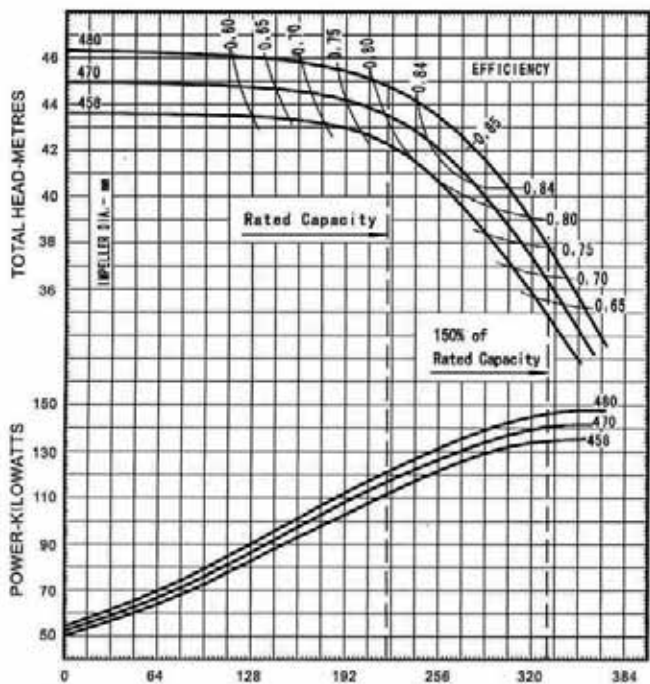
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP250/50	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S14	2



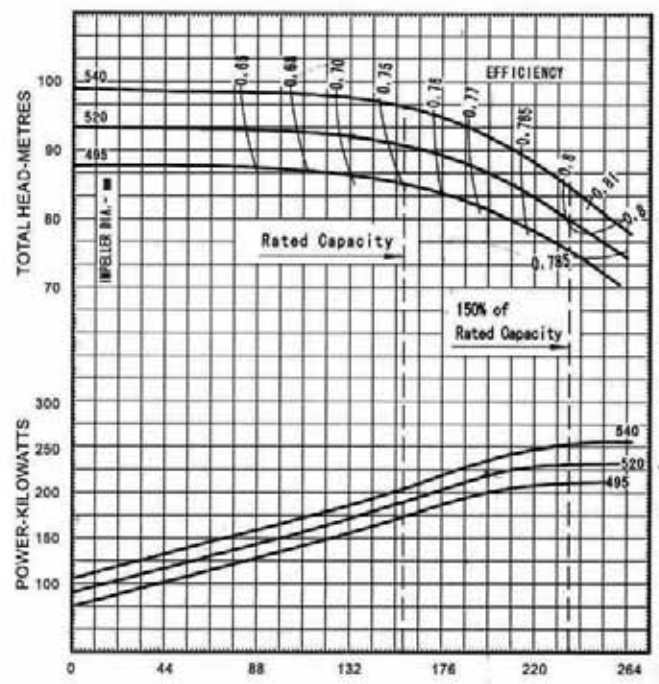
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP250/50	1100 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S15	2



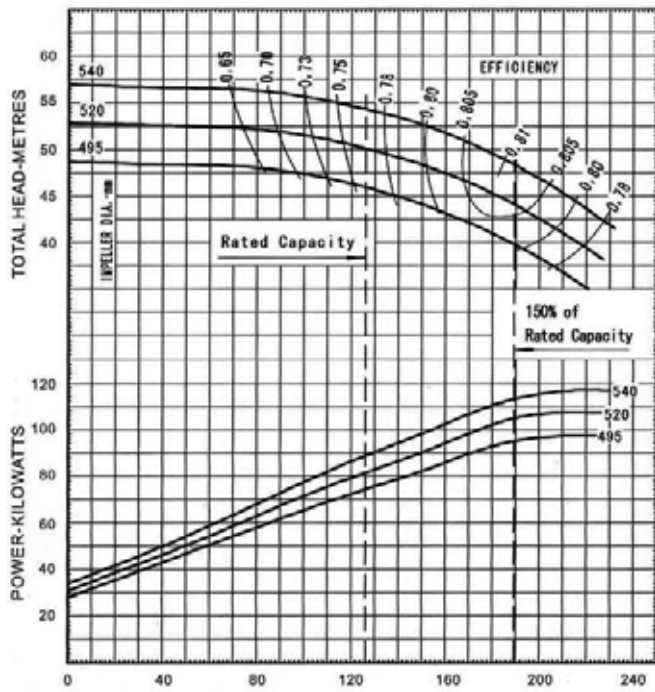
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft t=3.048m	CURVE NO.	ISSUE
SP250/54	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S16	2



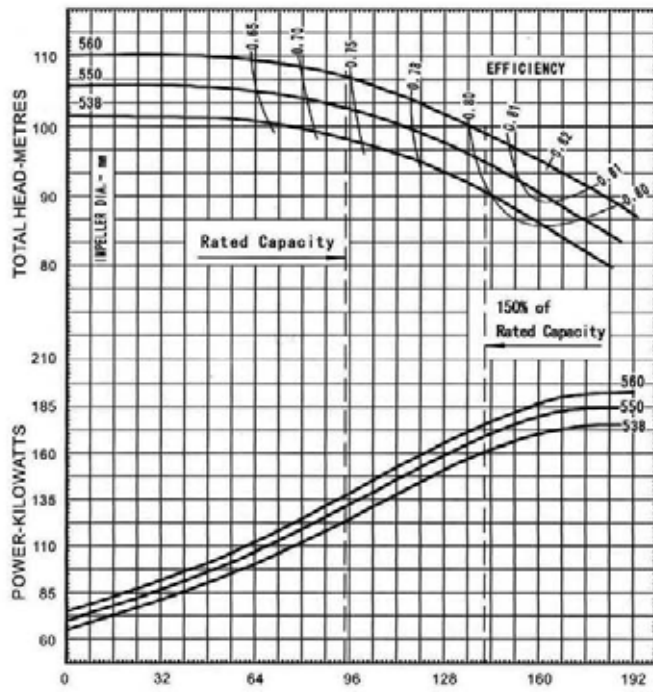
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP200/54	1100 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S17	2



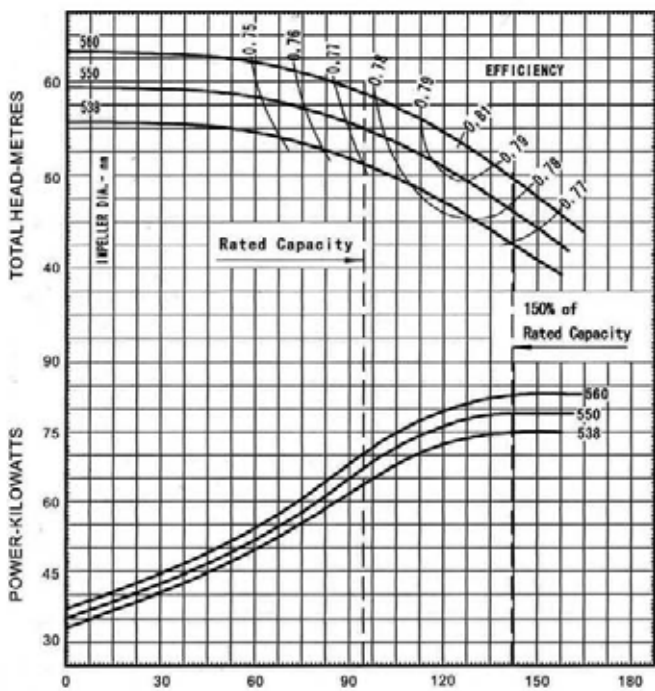
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP150/56	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S18	2



LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
SP150/56	1100 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-S19	2





End suction Pump

Capacity flow from 50 to 1500 GFGPM
(UL listed)

Pressures from 50 to 1500 PSI

Application (UL listed for fire fighting)

Commercial: Pumping systems, Sprinkler irrigation, Lift Irrigation, Water Supply systems, Air conditioning systems, Commercial, Equipment, Refrigeration and A/C Systems, Fluid handling, Mine drainage and dewatering, Refrigeration, Air conditioning.

Industry Sector: Thermal power, Nuclear power, Co-generation, Civic, General Industry, Fire Booster Service, Pharmaceuticals, Chemicals, Fertilizers, Paints, Dyes, Paper, Bulk drugs, Sugar industry, Textile Mills

UL Listed

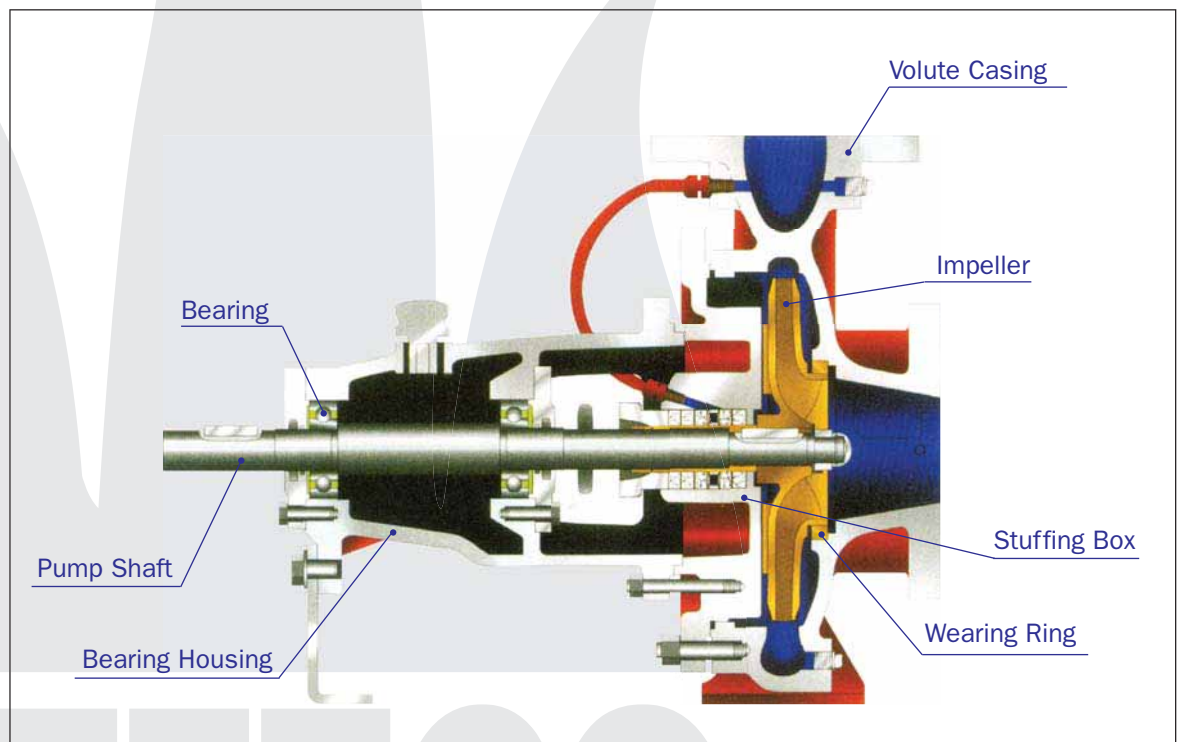
Fully cast integral feet for support, back pull out features for quick access to impeller. The impeller is designed with integral case wear rings to provide a close running fit and is dimensionally designed to reduce end thrust. The power frame has an integral oil sump that provides oil to lubricate the bearings.

End Suction Pumps have center line suction and discharge. They are available in capacities from 50 to 1500 GPM and each pump is hydrostatically tested to 1-1/2 times shut-off. A back pull-out design

allows removal of the rotating element without disturbing suction and discharge connections. Each pump is fitted with a shaft sleeve and a self-flushing mechanical seal. Registered fits at the volute cover and volute maintain pump alignment. Two end suction models are available - a frame mounted and a close coupled unit.

Impellers are fully shrouded closed design, with double curvature vanes for optimum efficiency and good suction. The back-pull-out construction allows the pump to be dismantled without disturbing the suction and discharge. A choice of materials of construction and options are available to suit many industrial and building services requirements.

Construction & Design Features (Standard)



Bearings: Oil lubricated ball bearing provide an L-10 rating of at least 5000 hrs at maximum load per ANSI/AFBMA 9-1990. All bearing housing provide integral oil level sight to ensure proper level of lubricants.

Casing: The casing has a vertical centre line discharge eliminating the need for reverse rotation. The casing is high quality cast iron and has integral feet as standard.

Shaft: The shaft is constructed of high quality 420stainless steel. The shaft with sleeve protects the shaft with sufficient strength to provide long life.

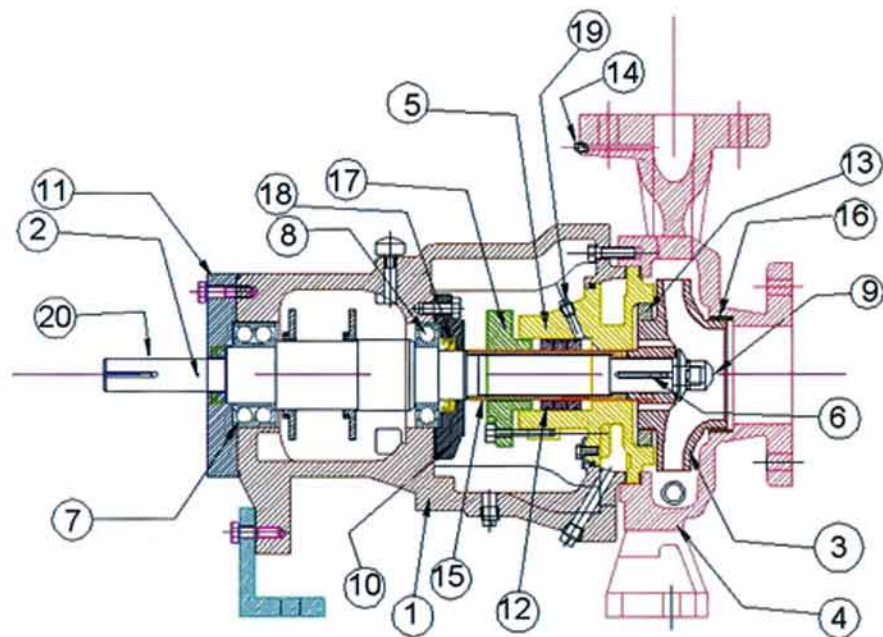
Casing wearing rings: The case wearing ring is renewable when the wearing clearance increases and reduces end thrust. On larger models an additional wearing ring is present to provide added wear resistance.

Impeller: The standard bronze impeller has pump out vanes standard on the back side of the impeller to reduce material build up. Each impeller is dynamically balanced before installation on the pump.

Stuffing box: Features a drip pocket with tapped drain outlet and is completely removable. The stuffing box is so designed that it allows replacing the gland packing without removing the volute casing or the bearing housing, gland packing is from braided graphite.

They are versatile, low cost pumps, engineered for virtually every phase of liquid handling. For different applications, appropriate material selection will be considered to meet end user requirement.

Sectional view and parts



1	bearing housing	11	bearing cover (front)
2	pump shaft	12	gland packing
3	impeller	13	wearing ring
4	volute casing	14	pipe plug
5	stuffing box	15	sleeve
6	pump key	16	neck ring
7	front bearing	17	gland holder
8	rear side bearing	18	lip seal
9	pump nut	19	pipe plug (stuff box)
10	bearing cover (rear)	20	coupling key

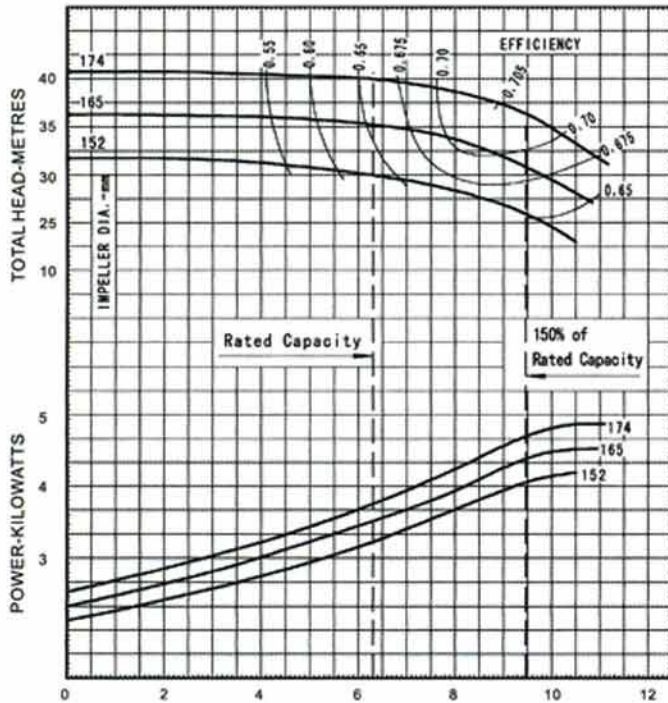
Centrifugal Fire Pump End Suction

ITEM NO	RATED HEAD (psi)	RATED HEAD Bar	RATED SPEED/r/min	RATED CAPACITIES	REFER BULLETIN	SUC. DIA inch	DIS. DIA inch	MAX WORKING PRESSURE (psi)	TYPE
1	45-56	3.1-3.86	2900	100	XA40/16	2 1/2	1 1/2	230	1 1/2x2 1/2-7
2	42-60	2.9-4.14	2900	200	XA50/16	2 1/2	2	230	2x2 1/2-7
3	40-55	2.76-3.8	2900	500	XA80/16	4	3	230	3x4-7
4	54-94	3.72-6.48	2900	50	XA32/20	2	1 1/4	230	1 1/4x2-8
5	73-92	5.0-6.34	2900	100	XA40/20	2 1/2	1 1/2	230	1 1/2x2 1/2-8
6	62-88	4.27-6.07	2900	200	XA50/20	2 1/2	2	230	2x2 1/2-8
7	60-90	4.14-6.2	2900	400	X65/20	3	2 1/2	230	2 1/2x3-8
8	60-92	4.14-6.34	2900	500	XA80/20	4	3	230	3x4-8
9	60-87	4.14-6.0	2900	750	XA100/20	5	4	230	4x5-8
10	113-140	7.8-9.65	2900	250	XA50/26	2 1/2	2	230	2x2 1/2-10
11	113-140	7.8-9.65	3500	250	XA50/26	2 1/2	2	230	2x2 1/2-10
12	104-138	7.17-9.51	2900	400	XA65/26	3	2 1/2	230	2 1/2x3-10
13	100-135	6.9-9.31	2900	450	XA65/26	3	2 1/2	230	2 1/2x3-10
14	113-138	7.8-9.51	3500	400	XA65/26	3	2 1/2	230	2 1/2x3-10
15	90-140	6.2-9.65	2900	500	XA65/26	4	3	230	3x4-10
16	90-140	6.2-9.65	2900	750	XA100/26	5	4	230	4x5-10
17	168-210	11.58-14.47	2900	400	XA65/32H	3	2 1/2	230	2 1/2x3-13H
18	41-52	2.83-3.58	1450	200	XA65/32	3	2 1/2	230	2 1/2x3-13
19	60-76	4.14-5.24	1760	250	XA65/32	3	2 1/2	230	2 1/2x3-13
20	120-212	8.27-14.62	2900	500	XA80/32H	4	3	230	3x4-13
21	45-54	3.1-3.72	1450	400	XA100/32	5	4	230	4x5-13
22	48-80	3.31-5.52	1760	500	XA100/32	5	4	230	4x5-13
23	66-80	4.55-5.52	1450	500	XA100/40	5	4	230	4x5-16
24	100-113	6.89-7.8	1760	750	XA100/40	5	4	230	4x5-16
25	51-83	3.52-5.72	1450	750	XA125/40	6	5	230	5x6-16
26	80-120	5.52-8.27	1760	1000	XA125/40	6	5	230	5x6-16
27	56-79	3.86-5.45	1450	1500	XA150/40	8	6	230	6x8-16
28	70-85	4.83-5.86	1760	1500	XA150/40	8	6	230	6x8-16



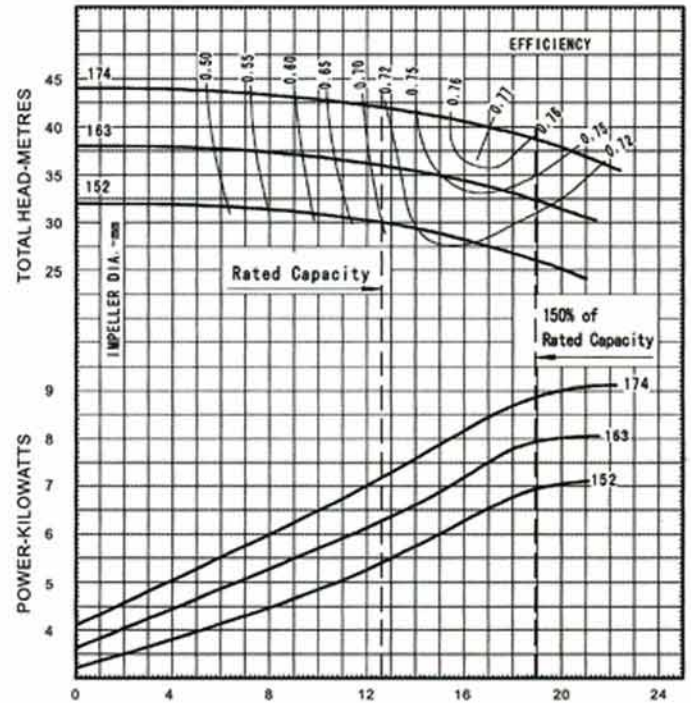
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA40/16	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X01	2



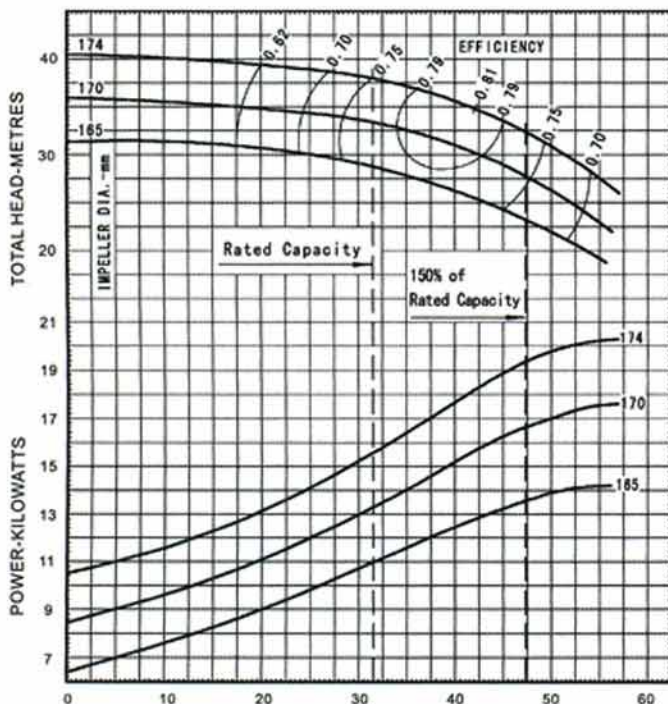
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA50/16	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X02	2



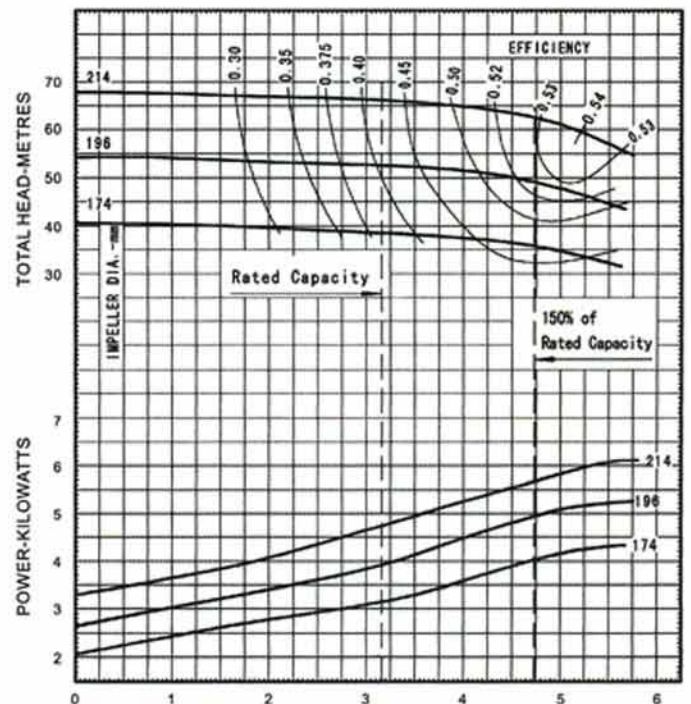
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA80/16	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X03	2



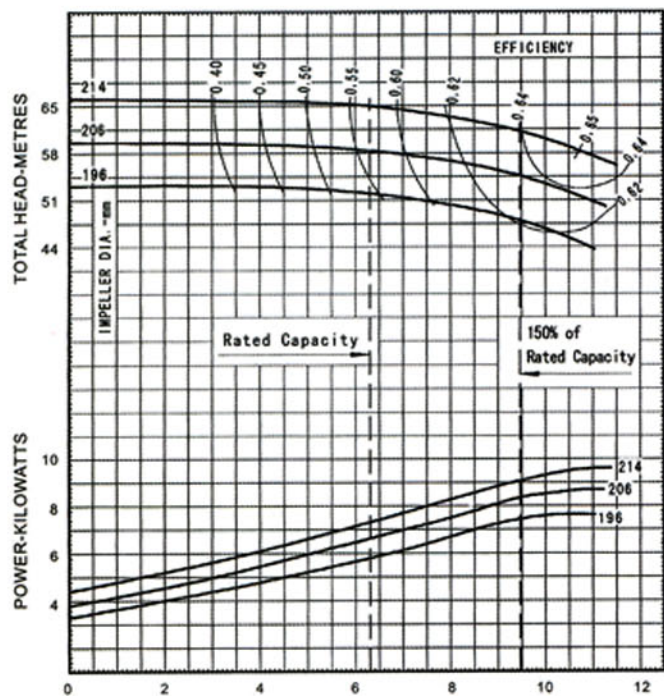
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA32/20	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X04	2



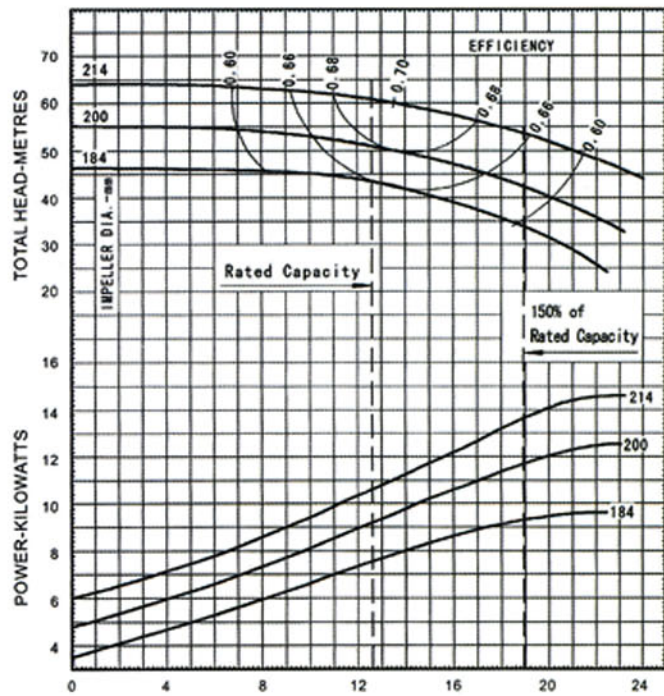
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft=3.048m	CURVE NO.	ISSUE
XA40/20	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X05	2



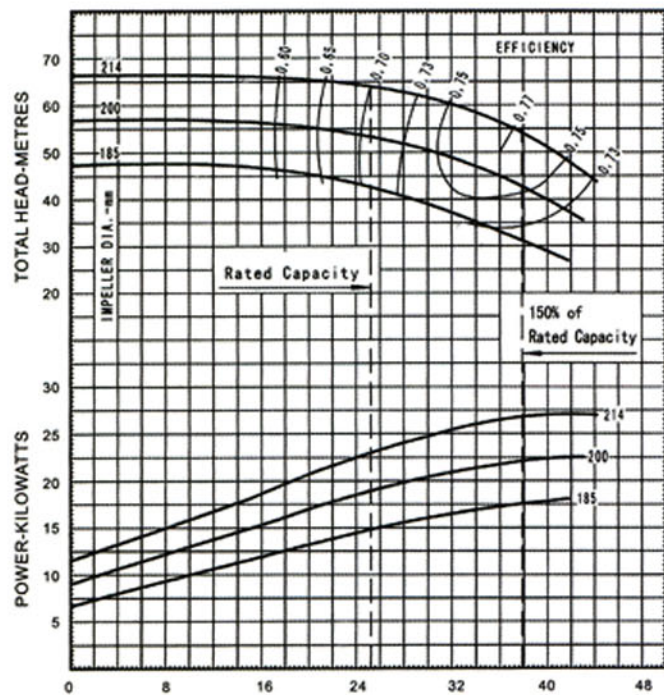
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft=3.048m	CURVE NO.	ISSUE
XA50/20	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X06	2



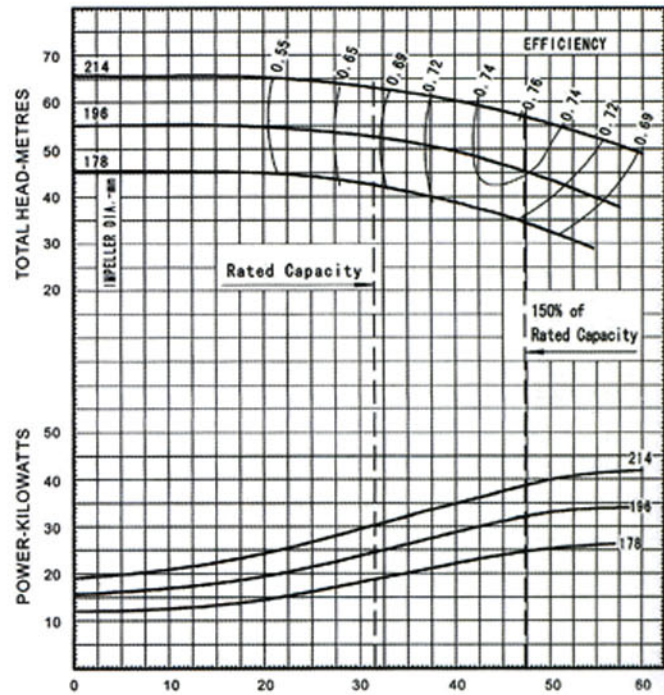
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft=3.048m	CURVE NO.	ISSUE
XA65/20	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X07	2



LITRES/SECOND

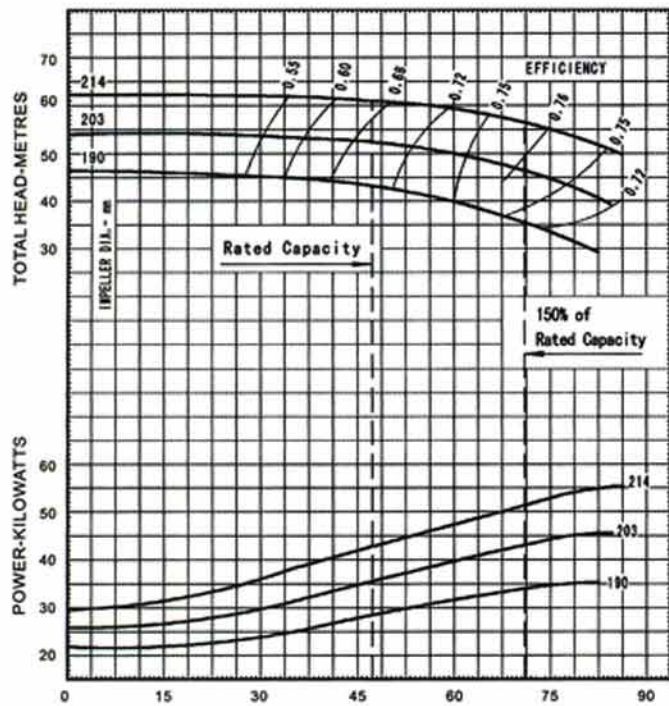
MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10ft=3.048m	CURVE NO.	ISSUE
XA80/20	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X08	2





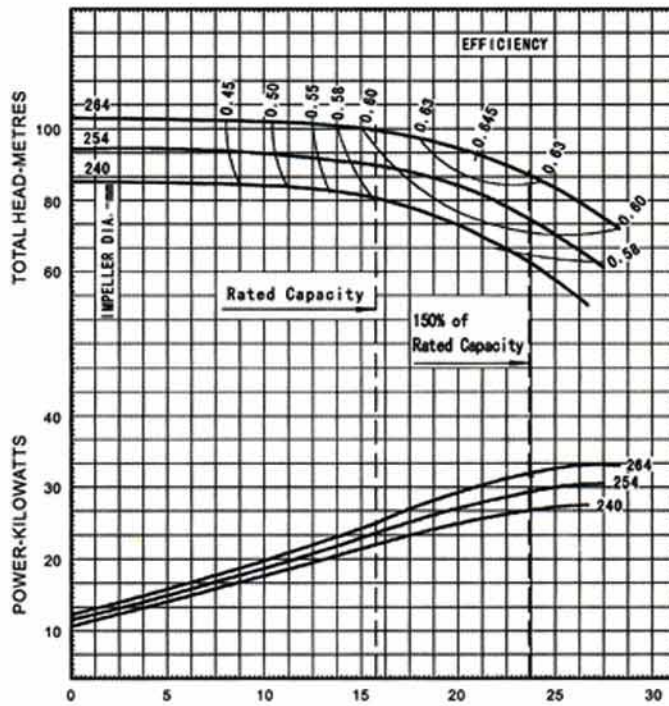
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10l t=3.048m	CURVE NO.	ISSUE
XA100/20	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X09	2



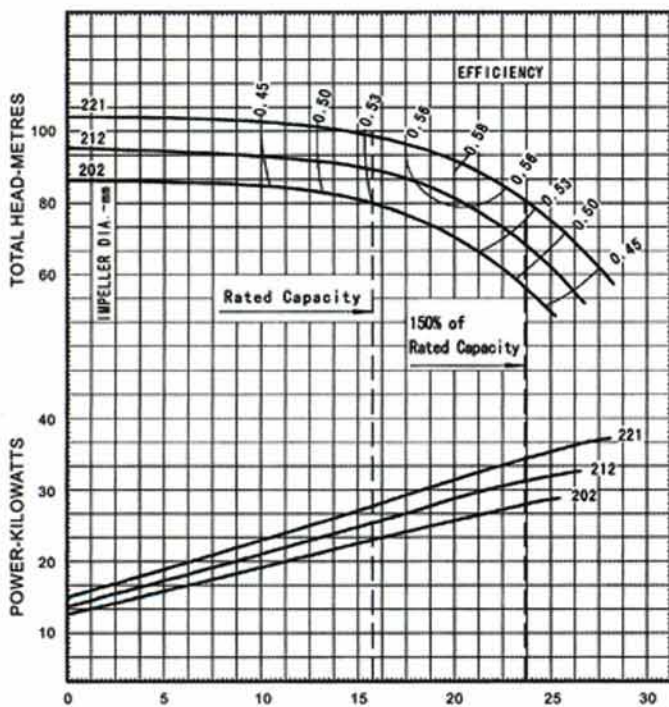
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10l t=3.048m	CURVE NO.	ISSUE
XA50/26	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X10	2



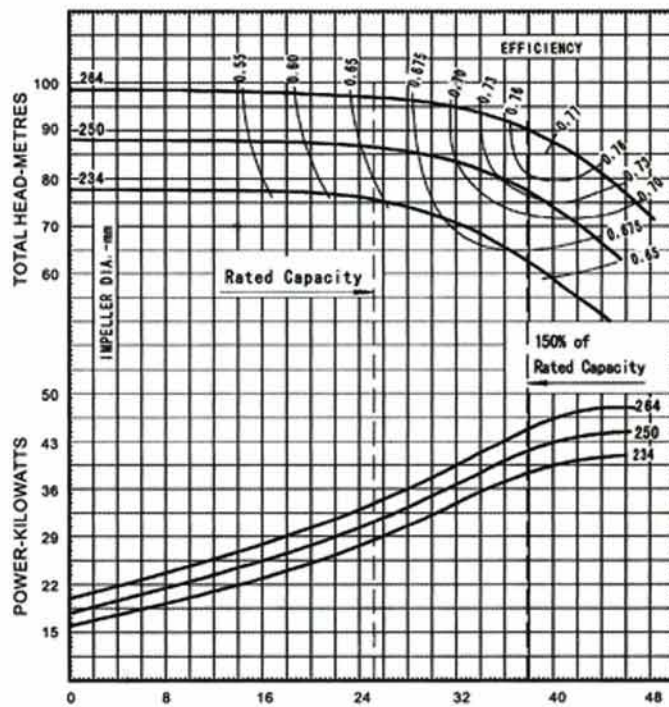
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10l t=3.048m	CURVE NO.	ISSUE
XA50/26	3500 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X11	2



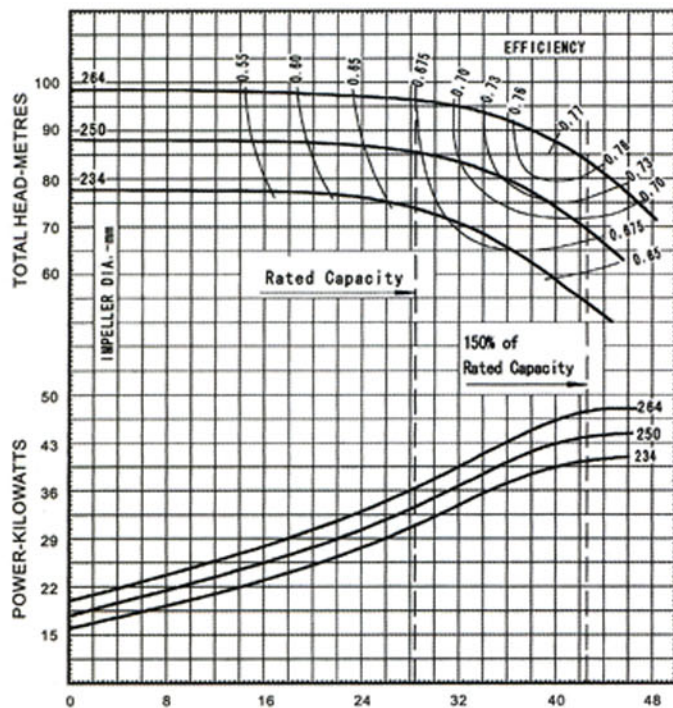
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10l t=3.048m	CURVE NO.	ISSUE
XA65/26	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, FM-X12	2



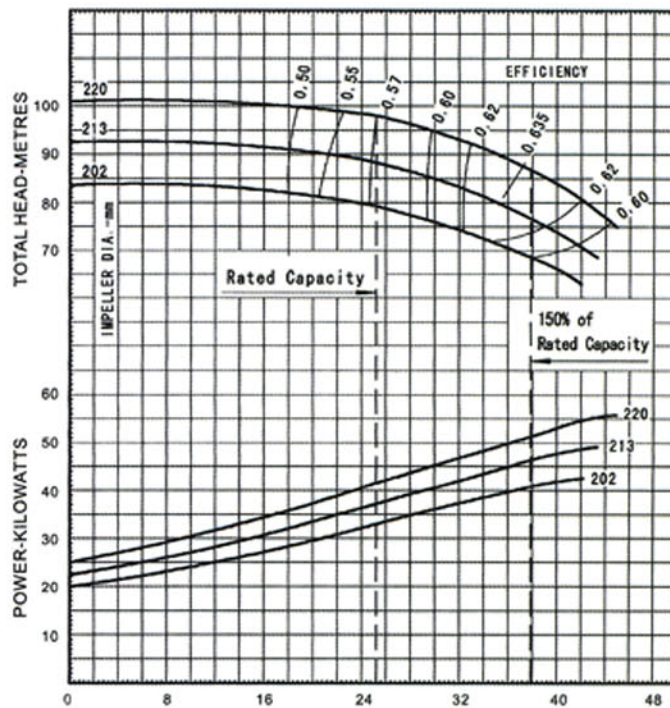
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA65/26	2900 RPM	100 IGP=7.577L/S	10HP=7.457kw	UL, FM-X13	2



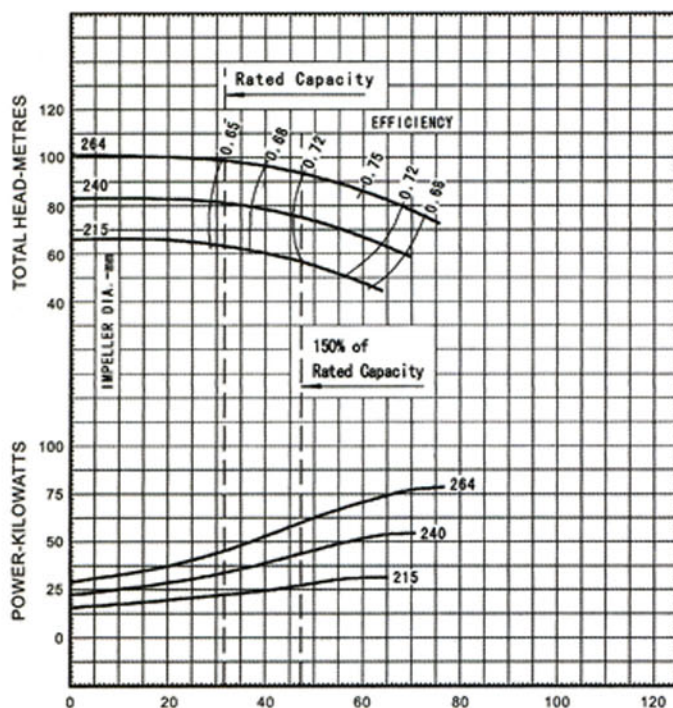
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA65/26	3500 RPM	100 IGP=7.577L/S	10HP=7.457kw	UL, FM-X14	2



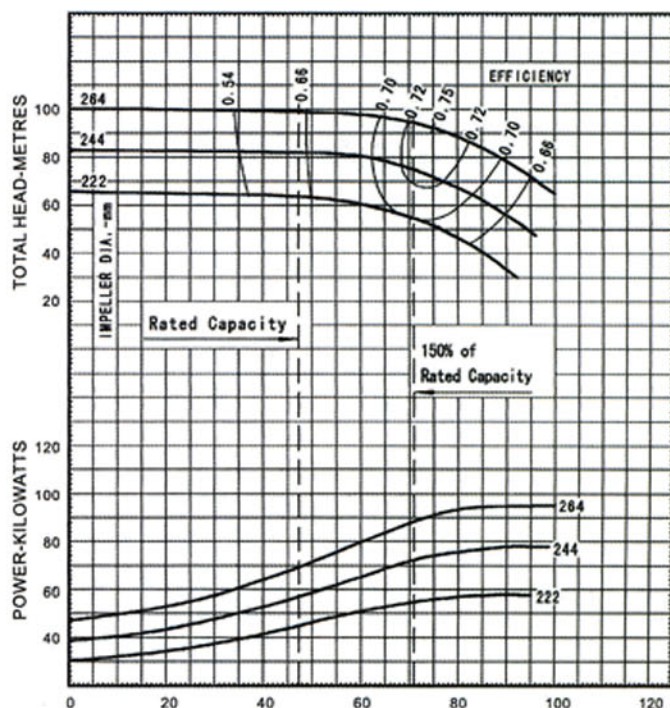
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA80/26	2900 RPM	100 IGP=7.577L/S	10HP=7.457kw	UL, FM-X15	2



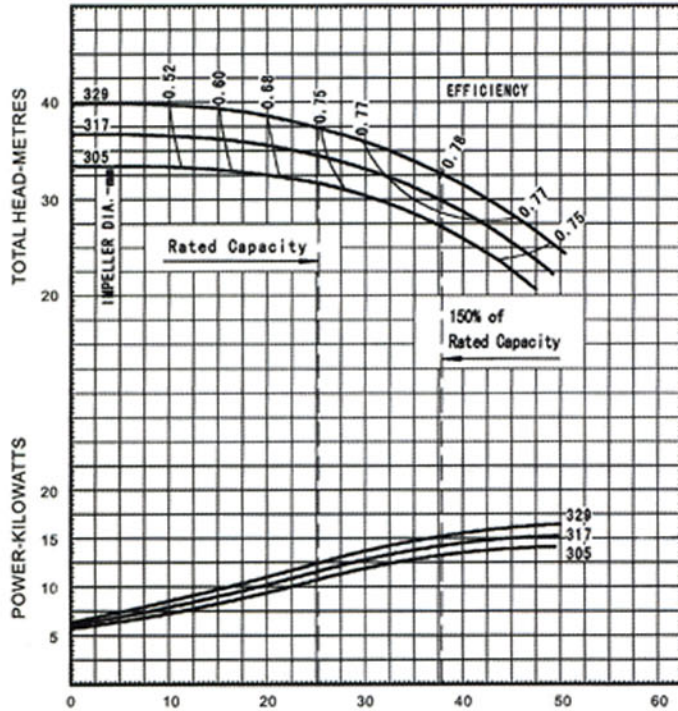
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA100/26	2900 RPM	100 IGP=7.577L/S	10HP=7.457kw	UL, FM-X16	2



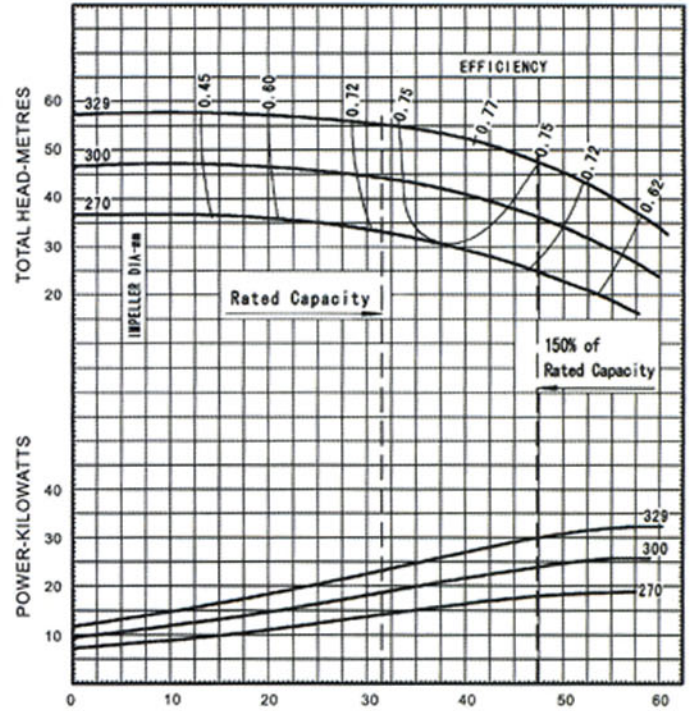
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA100/32	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-X21	2



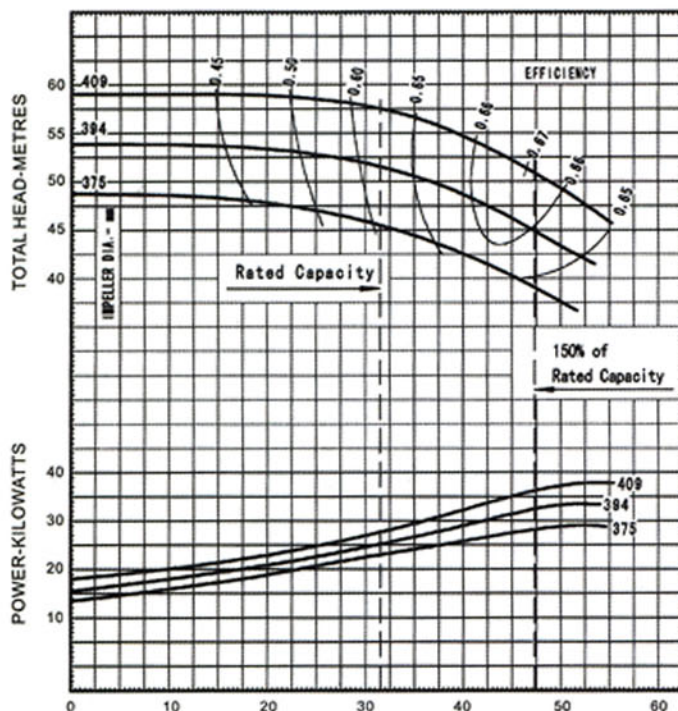
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA100/32	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-X22	2



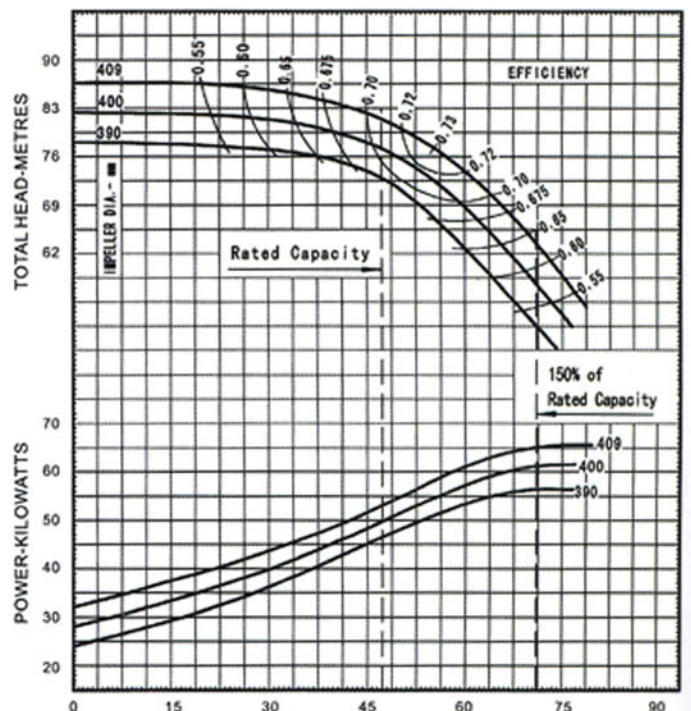
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA100/40	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-FMX23	2



LITRES/SECOND

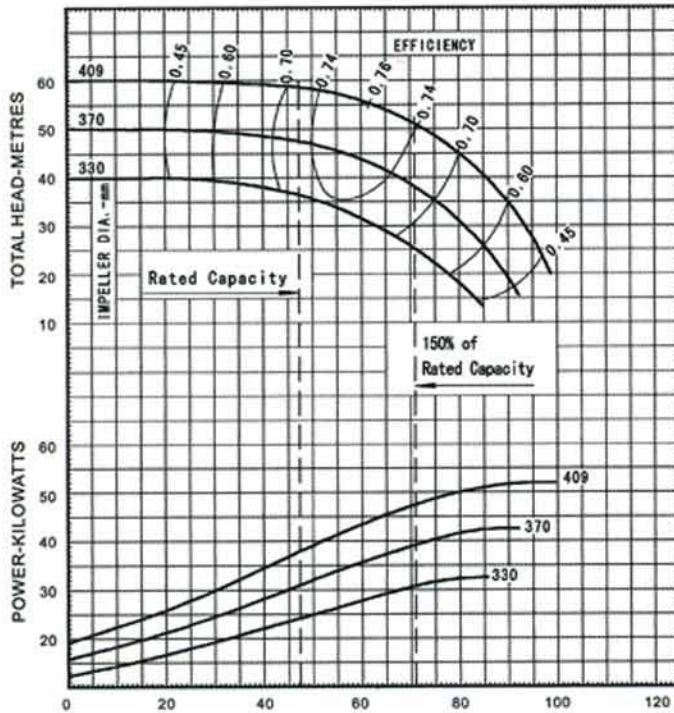
MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA100/40	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-FM-X24	2





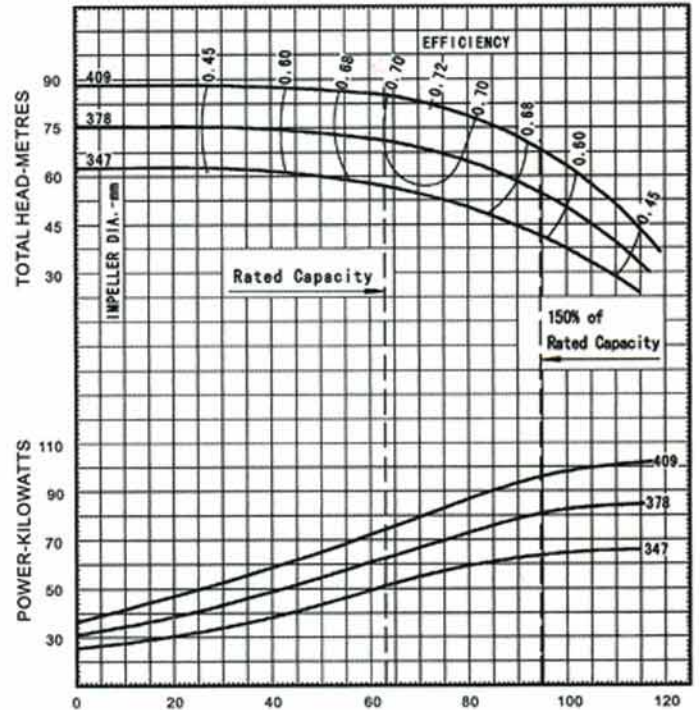
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA125/40	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-X25	2



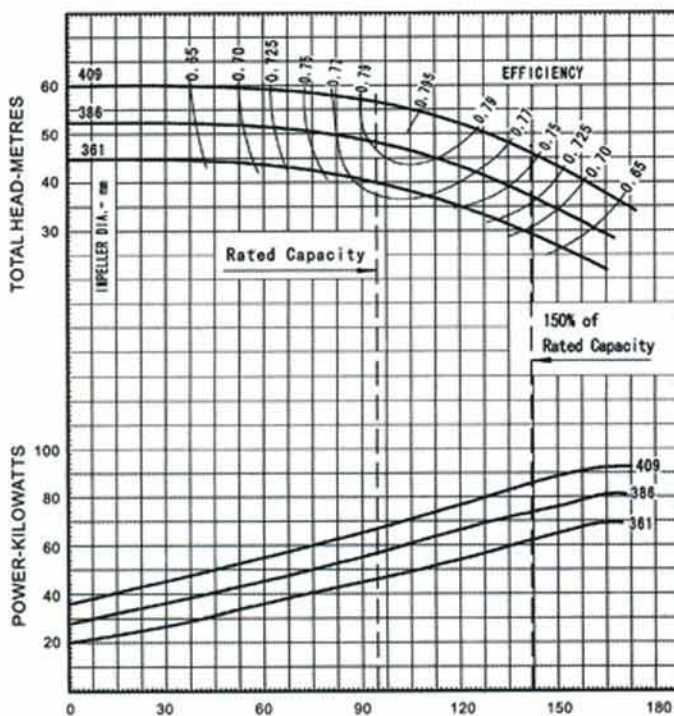
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA125/40	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-X26	2



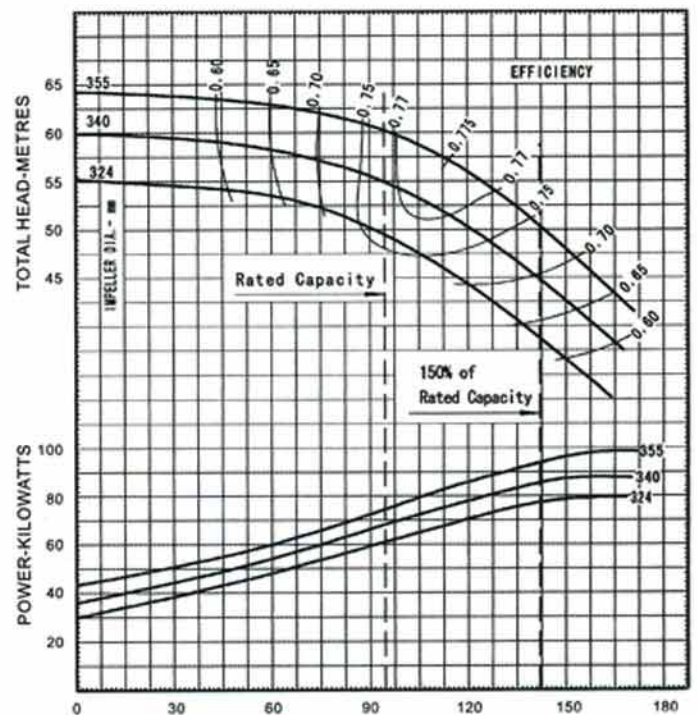
LITRES/SECOND

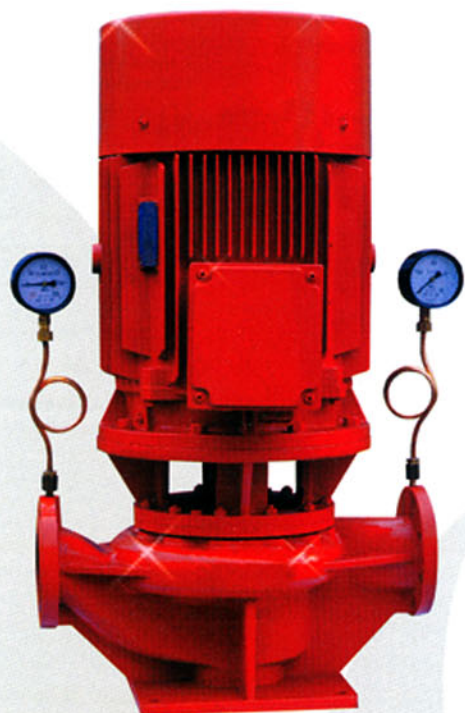
MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA150/40	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-FM-X27	2



LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
XA150/40	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-FM-X28	2





Vertical in-line Pump

Capacity 200 to 1000 GPM

(UL listed)

Head 45 to 120 PSI

Application (UL listed for fire fighting)

Commercial Pumping: Pumping systems, Sprinkler irrigation, Air conditioning systems, Fluid handling systems, Booster service.

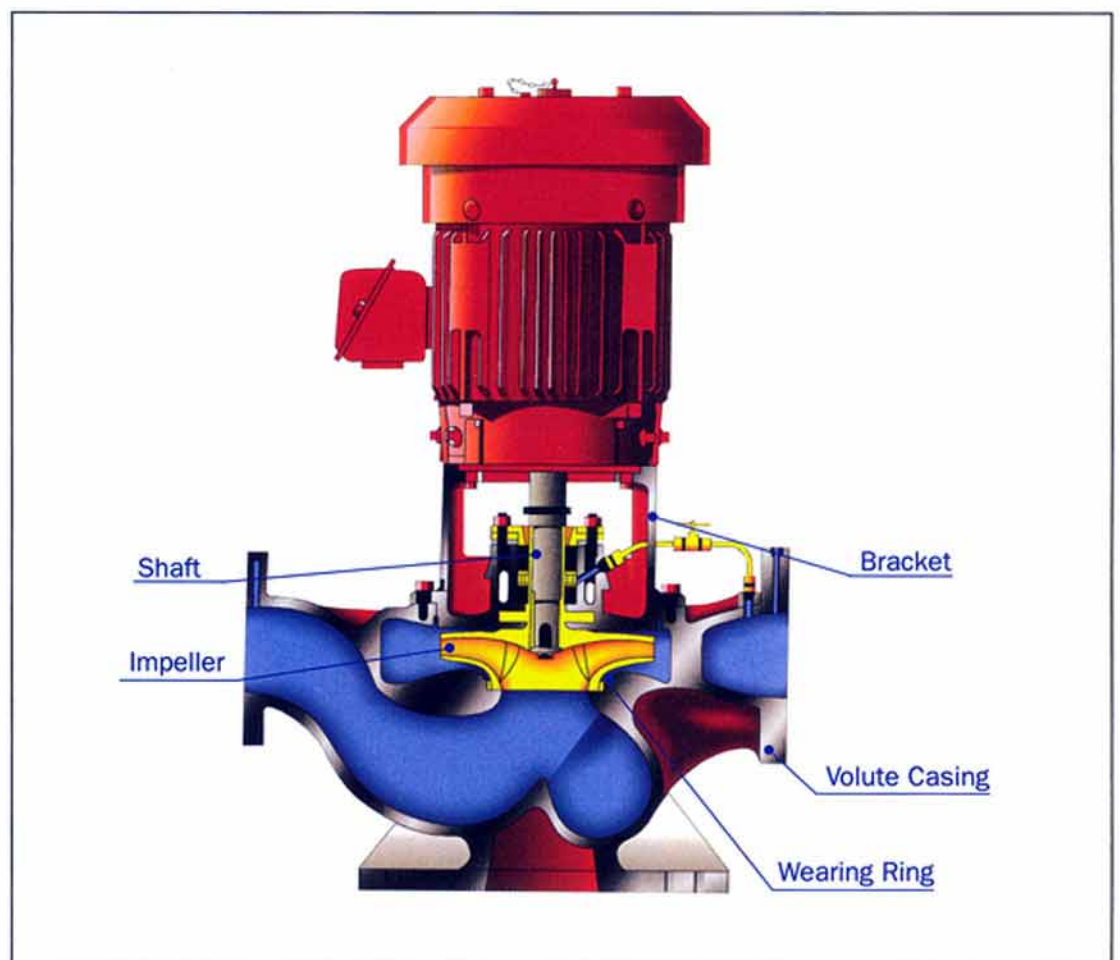
UL Listed

Vertical in-line pump is designed such that motor may be removed without complete dissemble of the pump. The back pull out design is convenient when there is a need for inspection, repair or for changing the impeller without disturbing the piping system. The Vertical in-line has a centre line suction and discharge with a space saving design. The enclosed impeller may be dynamically balanced and the renewable wearing maintains peak efficiency. Each impeller has back pull out vanes to provide a clear passage way against material build up behind the impeller. The impeller is designed to reduce end thrust. Larger pumps have an additional wearing in the rear to provide additional wear resistance.

This pump offers a space-saving alternative for many overhung process pumps in upstream and downstream services, Pumps which are vertical in-line & close-coupled, are also commonly used as chemical process pumps. Vertical in-line pumps do the job where others won't. Their space-saving design and ease of installation, optimum performance and minimal maintenance make them ideal for HVAC and industrial applications from domestic water service to cooling towers. Vertical in-line suction and discharge flanges are on a common center line, 180 degrees apart, for easy installation into an existing pipe line.

The vertical in-line pump is available with either gland packing or a mechanical seal. When packing is utilized, a two-piece gland is provided for easy removal and packing installation. The mechanically sealed pump can be converted to packing in the field. Competing in-line pumps offer mechanical seals on standard models, but do not provide a gland, and the mechanical seal is installed underneath the volute cover. This does not offer the user the flexibility of converting to packing if it is the mechanical seal. Quality integral drive systems that assure the uniformity of tolerances, minimum shaft deflection and bearings properly sized for the job. Vertical in-line pumps offer a simple, economical and an efficient alternative to end suction and horizontal split case pumps in flows less than 1,500 GPM.

Construction & Design Features (Standard)



Shaft: The shaft is constructed of high quality 420 stainless steel. The shaft with sleeve protects the shaft from damaging at the seal area it has sufficient strength to provide long life to the pump. The bearing dimensions on the shaft is grinded to a surface finish of 5 microns.

Casing: The casing is of volute type to allow smooth flow. The casing is high quality cast iron and has Integral Square base feet as standard.

Casing wearing rings: The case wearing ring is renewable when the wearing clearance increases and its tight fit in the volute casing, also reduces end thrust. On larger models an additional wearing ring is present to provide added wear resistance.

Impeller: The standard bronze impeller has pump out vanes standard on the back plate of the impeller to reduce material build up. Each impeller is dynamically balanced before installation on the pump and held to pump shaft with a pump key.

Bracket: Utilizes standard C-Face motors which can be removed without disassembling the pump.

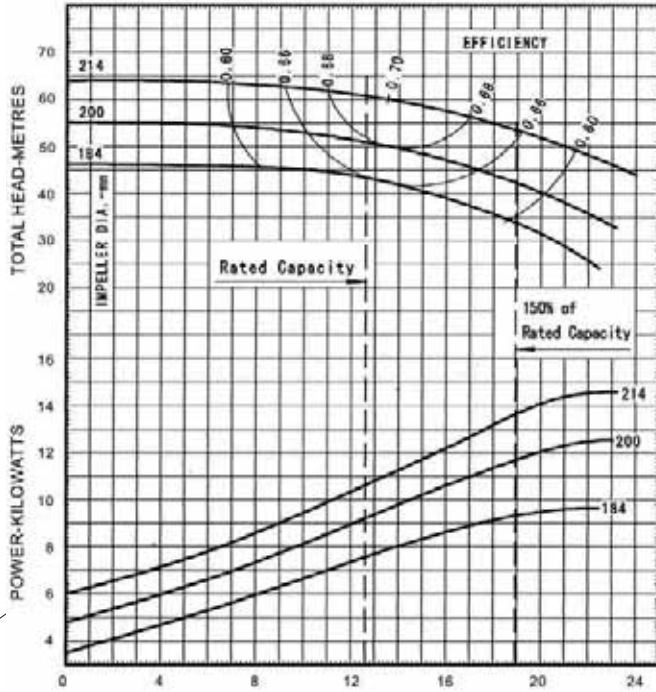
Centrifugal Fire Pump Vertical-In-Line

ITEM NO	RATED HEAD (psi)	RATED HEAD (Bar)	RATED SPEED r/min	RATED CAPACITIES gpm	REFER BULLETIN	SUC. DIA inch	DIS. DIA inch	MAX WORKING PRESSURE (psi)	TYPE
1	62~88	4.27~6.07	2900	200	KTG65/20 II	2 ½	2 ½	230	2 ½x2 ½-8
2	45~54	3.1~3.72	1450	400	KTG125/32	5	5	230	5x5-13
3	51~83	3.52~5.7	1450	750	KTG150/40	6	6	230	6x6-16
4	48~80	3.31~5.52	1760	500	KTG125/32	5	5	230	5x5-13
5	80~120	5.52~8.27	1760	1000	KTG150/40	6	6	230	6x6-16

SFFECO

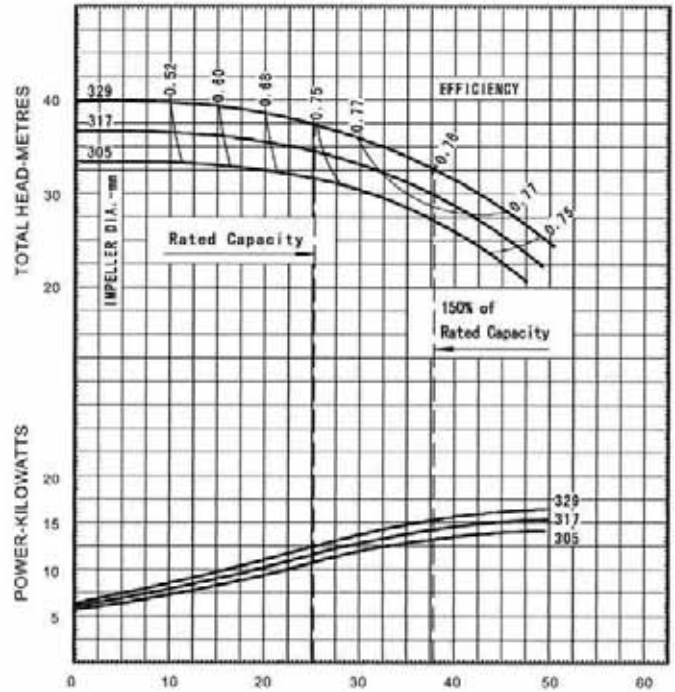
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
KTG65/20II	2900 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-K01	2



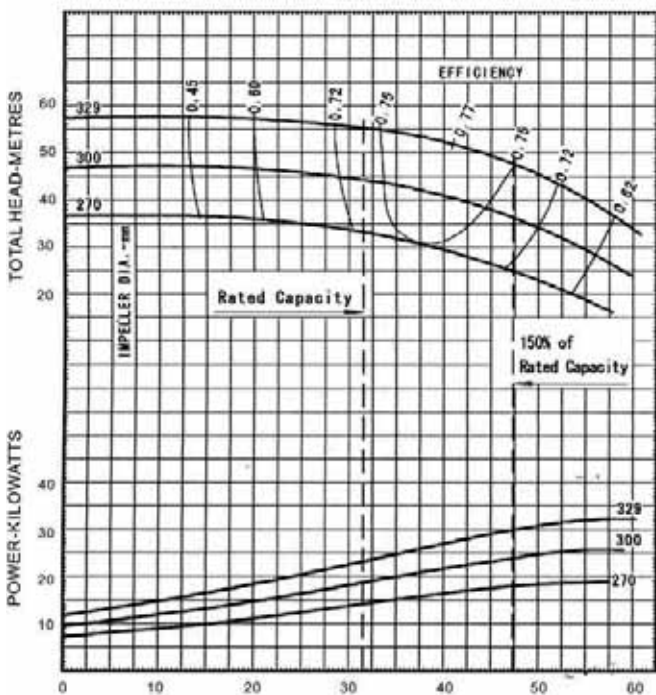
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
KTG125/32	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-K02	2



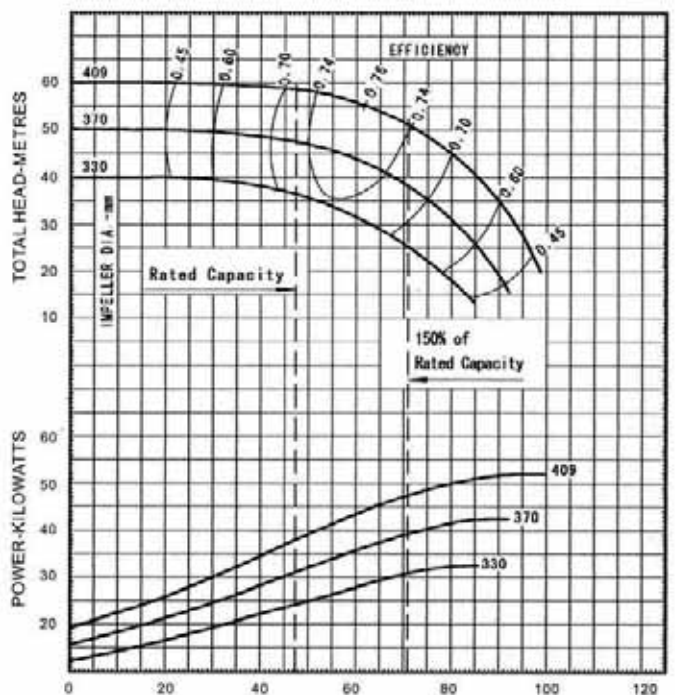
LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
KTG125/32	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-K03	2

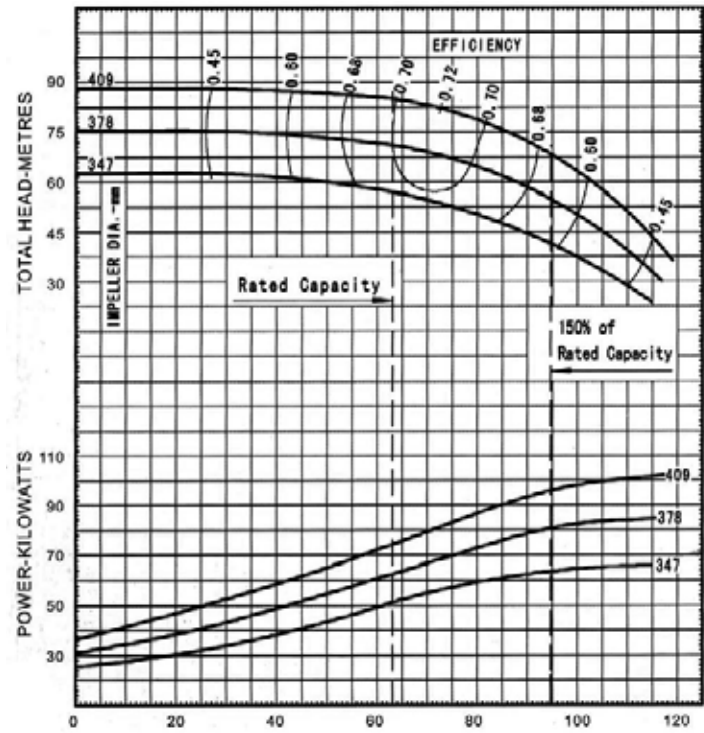


LITRES/SECOND

MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	10f t=3.048m	CURVE NO.	ISSUE
KTG150/40	1450 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL-K04	2



LITRES/SECOND					
MODEL	NOMINAL SPEED	100 USGPM=6.309L/S	100f t=3.048m	CURVE NO.	ISSUE
KTG150/40	1760 RPM	100 IGPM=7.577L/S	10HP=7.457kw	UL, K05	2





UL / FM Motors

Approved motors are so selected such that it is not overloaded at any point in its range of operation in the performance curve at a discharge of 150% of the rated. The Recognized motors in this category are normally evaluated only for construction. No testing is performed on the motor to evaluate it as a whole unit. The Fire Pump Motor is subjected to a battery of tests to determine if the motor is suitable for this use. They include the Temperature, Locked-Rotor, Duty Cycle and a Dielectric Voltage-Withstand test.

The requirements for motors to be listed for fire pumps were first published in the 1996 edition of NFPA 20-Standard for the Installation of Stationary Pumps for Fire Protection. At the time the NFPA 20 revision was adopted, there were no listed fire pump motors available.

The Standard provides detailed requirements for motor frames and enclosures, drain and ventilation openings, accessibility of live parts, corrosion protection, grounding, and other critical construction features. Safety performance tests are also specified, such as input tests to verify marked electrical ratings, normal

temperature tests to determine if the motor is capable of operating at rated load without exceeding the temperature limits of the insulation system, dielectric voltage-withstand tests to evaluate the insulation system, and an evaluation of the inherent motor-protector combination. As Standard pumps are coupled with Marathon or WEG motors, customers choice if any, is also considered.

Component Motors Protected from Overheating

Thermal protection for motors is required on most end-use products. There are several categories that cover these types of motors – two major ones are Impedance and Thermal Protection.

Impedance Protection is when the windings of the motors are designed so that they limit the amount of heat generated even in abnormal situations such as a locked-rotor condition. Impedance Protected motors are normally small motors.

Thermally Protected motors have a protective device electrically in line with the power source. The protective device opens the circuit if the motor windings become too hot. Protective devices include automatic resetting type, manual resetting type and single-operation type. Thermally Protected motors come in all shapes and sizes.

Resistance temperature detectors (RTDs) - These detectors are placed under the bearing babbit and monitor any change in bearing housing or bushing resistance to produce a direct temperature reading. Thermometers, Direct reading dial thermometers detect bearing temperatures and are normally mounted on the motor frame.

Resistance temperature Detectors (RTDs) - Can be embedded in stator slots for a direct temperature reading of the hottest area of the motor winding RTDs with 100 Ohm resistance are standard, which can be used.



Space heater - These heaters are energized when the motors is at rest in damp or high-humidity environments to reduce internal condensation build up. These heaters are used to maintain the internal air temperature above dew point during periods of motor shutdown.

Setting The Standards Worldwide...

Each Marathon Electric motor design is proven reliable in the company's state-of-the-art test facility. Experienced test personnel are aided by modern computerized equipment to accurately test and evaluate the actual motor performance characteristics. Dynamometers are used for full load and service factor testing through 1,000 horsepower. Motors combine an optimum design that features low-loss electrical grade laminations, 100% Copper windings, a precision air gap, and non-hygroscopic class F insulation. Motors incorporate a 1.15 service factor; High efficiency motors offer an all cast iron frame and end shields that provide the necessary strength and corrosion resistance for the most demanding industrial applications. Incorporates 100% copper windings that offer lower resistance and lower temperature rise for higher overall efficiency.

Low-loss electrical grade steel laminations and longer stack lengths in the rotor and stator reduce electrical losses and improve heat transfer by lowering flux density and increasing cooling capacity. When applied in the toughest environments. A large grease reservoir and bearing pre-load spring on the opposite drive end increase the motor's dependability.

Motors are engineered, designed, and individually tested to meet the toughest motor applications that the industries have to offer. The motor incorporates all cast iron construction; frame, fan guard, conduit box, and end shields along with high efficiencies and a premium design that reduce motor losses while increasing motor life and reliability.

- Enclosures 143-145T frame TENV, 182T-449T frame TEFC ● Construction Cast iron frames and end shields
- Fan (External) Non-sparking polypropylene ● Fan Guard Cast iron ● Conduit Box: Steel 143T-326T, Cast iron 364T-449T Cast iron, oversized, fully gasketed with NPT threaded opening ● Bearings & Shielded ball bearings, Select ratings above 125 HP

Bearing Caps: Cast iron, 254T-449T frame, Cast iron, 444T-449T frame. Drains: Corrosion resistant brass drain and breather drilled and tapped hole Slinger: Molded neoprene slinger on shaft end Voltage: 230/460 volt through 100 HP o 460 volt - 125 HP & above In 60HZ, available 190/380 or 380-415 volt; 50Hz Leads: Lead lugs standard : 364T frame and larger permanently marked leads with lead separator Insulation: nonhygroscopic class F insulation ; 449T class H insulation Agency Listings: UL recognized file no. E49747 and CSA certified

Seals: Inpro/Seal® VBX® Bearing Isolators on drive end of TENV and on both ends of TEFC. Epoxy: Finish Internal and external corrosion resistant epoxy Hardware: Corrosion resistant zinc dichromate plated hex head hardware

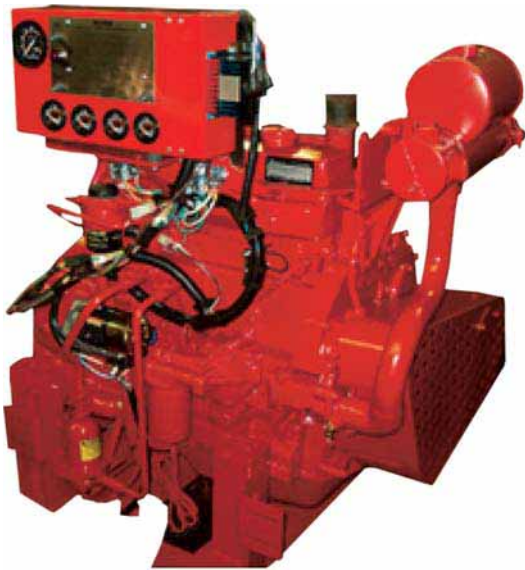
Lifting provisions: 182T-449T frame Ground: Ground lug provision in conduit box, External grounding provision

Balance: Special balance average. 03 in/sec.

Motor Testing: Actual short commercial test data supplied with each motor

Actual short commercial test data plus max. vibration test supplied with each motor

Actual short commercial test data plus 2 additional vibration tests are supplied with each motor



ENGINE DETAIL: UL / FM

This component also plays a vital role in the fire pump as it is used in conjunctions with electric motor as stand by and fire pump driver. Fire power product is powered by diesel engine which is rigorously tested to standards ensuring a premium quality. It is selected with the client choice if any or other wise it is either CUMMINS, CLARKE, or IVECO. Diesel engine fire pump drivers are expected to perform reliably under normal application conditions for a minimum of 2,000 hours or five years without an overhaul, whichever comes first..

Diesel Engine

An internal combustion engine in which the fuel is ignited entirely by the heat resulting from the compression of the air supplied for combustion. The diesel engine, which operates on fuel injected after compression is practically completed, is the type usually used as a fire pump driver.

The diesel engine fire pump drivers is arranged to allow power take-off through a flexible coupling directly from the engine's rotating element. The flexible coupling may be either connected to a stub shaft or flange-mounted to the engine's rotating element. The power take-off is designed to allow the working space required for servicing a fire pump when a fire pump is connected directly to an engine. FM approved flexible couplings are used. The desired rated power output for each fire pump driver is increased by 10 percent to determine the actual power required in testing to justify that rating.

The question is often asked, "Which is the least expensive and most reliable means of driving a fire pump?". The installation costs and reliability associated with the two most commonly used choices for fire pump drivers. The most commonly used fire pump drivers are an electric motor and a diesel engine. The electric motor costs are increased by 7-1/2% for EPAC-approved motors.

The reliability of both drivers is very good. Both diesel engines and electric motors are UL listed. The electric motors are manufactured according to the NEMA MG1 Standard. Since the 1990 edition of the Standard, NFPA 20 has required that the electric motor be listed/approved. Underwriter's Laboratory has developed a listing requirements document (Standard 1004A). Several electric motors are now UL listed.



Electric motors are a very dependable source of power. It is our present electrical delivery systems that cannot always be counted on in emergency situations associated with fires, earthquakes, wind, and winter storms. This has been proven time and again, when the wind, snow, and ice knock down power lines and the lines are out of service for days and sometimes weeks. What happens to the installed fire protection in a building when this occurs?

If there is an electric motor as the power source for the pump and there is no alternate source of electrical power, such as an on-site generator or second utility source, the fire protection system will remain inoperative during the entire outage.

With the testing, preventative maintenance (NFPA 25), and listing/approval, the diesel engine is a reliable and tested means of providing power to a fire pump. The diesel engine-driven pump and electric motor are an installation that has required weekly start-up and operation for many years. NFPA 25 - 1992 initiated the requirement that the electric motor-driven fire pump be started and operated on a weekly basis. Both pump drivers are required to be inspected, tested, and maintained, with the pump, on an annual basis for flowing at the shut-off pressure, rated (flow and pressure), and overload (flow and pressure) conditions. The diesel engine-driven pumps are more likely to be tested weekly and therefore, are more reliable because small deficiencies or failures are repaired more frequently.

if the fire pump installation is installed in accordance with NFPA 20 - 1996 and inspected, tested, and maintained in accordance with NFPA 25 - 1998, the original installation of a diesel-engine-driven fire pump will be less expensive than for an electric-motor-driven pump. Furthermore, on an annual basis, the energy costs, inspection, testing, and maintenance costs for a diesel-engine-driven pump will be less than that required for an electric-motor-driven fire pump installation.

The installed cost of diesel engine driven fire pumps is SIGNIFICANTLY less than electric motor driven fire pumps utilizing an emergency. NFPA 20 diesel engine fire pump drivers are more reliable than NFPA 110 emergency generator drivers.

JOCKY PUMPS



Jockey pumps are small, motor driven pumps used in conjunction with main fire pumps to compensate for minor leaks in the fire protection system and automatically maintain stand-by pressure. This reduces wear on the main pump and controller caused by unnecessary, frequent operation. Jockey Pump controllers are available for across-the-line starting.

Manual operation by a Hand-Off-Auto selector switch is independent of the pressure switch system. Providing automatic type operation, the pressure switch cut-in-point is usually set about 10 PSI higher than that of the main controller to cause the Jockey Pump to operate first. In the event of a fire, the system pressure will drop further to start the main pump.

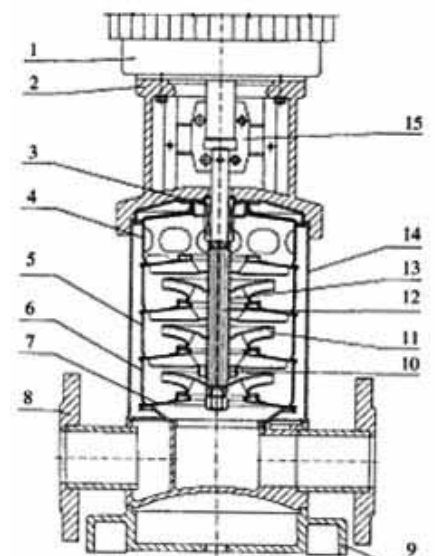
Occasionally in a Fire Pump system, water leakage will occur at flanged or threaded pipe connections, valve stems, stuffing boxes, etc. This normal loss of water will lower the system pressure gradually until the main Fire Pump is required to start. To minimize wear on the Fire Pump resulting from unnecessary operation, a Jockey Pump is recommended for the system. In a Jockey Pump system a small pump, motor, and controller/pressure switch unit is installed in the piping system.

When the water pressure drops below the pre-set level, the pressure switch energizes a starter which activates the Jockey Pump. Correct water pressure is therefore maintained at all times. An optional minimum run timer will prevent the Jockey Pump from being started too frequently. This timer will ensure operation for a minimum of 3 minutes. If a fire should start, the pressure will continue to drop and the main Fire Pump will start. Automatic controllers also include a "Hand-Off Automatic" selector switch for manual operation.

Specifications :

Delivery size up to	100 mm
Capacity up to	75 m ³ /hr
Liquid temperature	-15 to + 90 deg centigrade
Head up to	220 m (Max.)
Constructional Features	<p>Various models are available 3 x 200 - 220 / 346 - 380V, ±10%</p> <p>Standard voltages 50 HZ 3 x 220 - 240 / 380 - 415V.</p> <p>3 x 380 - 415 V</p> <p>1 x 220-230 / 240 V</p> <p>60Hz 3 x 380-460 / 220 V.</p>
Drive	Suitable for coupling with electric motors. Single phase Three phase motors are as per IEC standard available with class of insulation F and motor protection IP 54/55.

Item No	Name	Material	AISI/ASTM
1	Electric motor		
2	Motor base	Cast iron	ASTM25B
3	Mechanical seal	Tungsten Carbide/Graphite	
4	Discharge diffuser	Stainless steel	304
5	Support diffuser	Stainless steel	304
6	Diffuser	Stainless steel	304
7	Inducer	Stainless steel	304
8	Suction & discharge head	Stainless steel	304
9	Pump base	Cast iron	ASTM25B
10	Bearing	Tungsten Carbide	
11	Impeller	Stainless steel	304
12	Shaft	Stainless steel	304
13	Sleeve	Stainless steel	304
14	Cylinder	Stainless steel	304
15	Coupling	Alloy	
	Rubber parts	FPM	

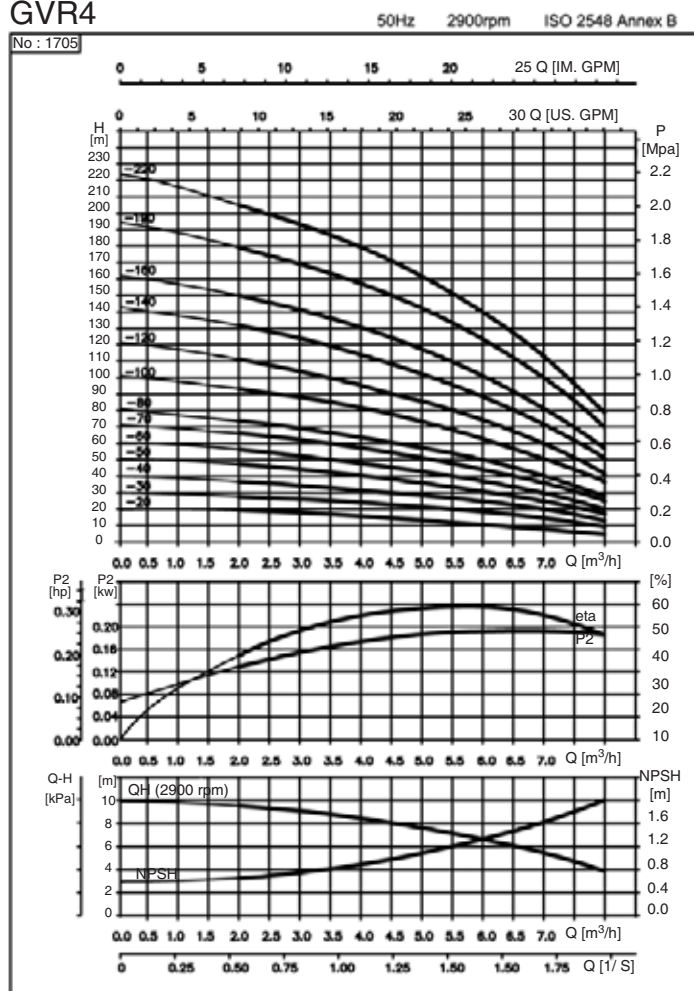


These pumps are available in both 50 Hz and 60 Hz in 2900 rpm and 3500 rpm

Specification; - for 50 Hz 2900 rpm

Model	Motor Kw	Q m ³ /h	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0
GVR4-20	0.37	Head in meters	19	18	17	15	13	10	8	6
GVR4-30	0.55		28	27	26	24	20	18	13	10
GVR4-40	0.75		38	36	34	32	27	24	19	13
GVR4-50	1.1		47	45	43	40	34	31	23	17
GVR4-60	1.1		56	54	52	48	41	37	28	20
GVR4-70	1.1		66	63	61	56	48	43	33	24
GVR4-80	1.5		74	72	70	64	55	50	38	27
GVR4-100	2.2		96	90	87	81	71	62	48	34
GVR4-120	2.2		114	108	104	95	85	75	58	41
GVR4-140	3.0		136	126	122	112	101	89	68	48
GVR4-160	3.0		152	144	140	129	115	101	78	55
GVR4-190	4.0		183	171	168	153	137	122	93	67
GVR4-220	4.0		211	200	192	178	160	138	108	79

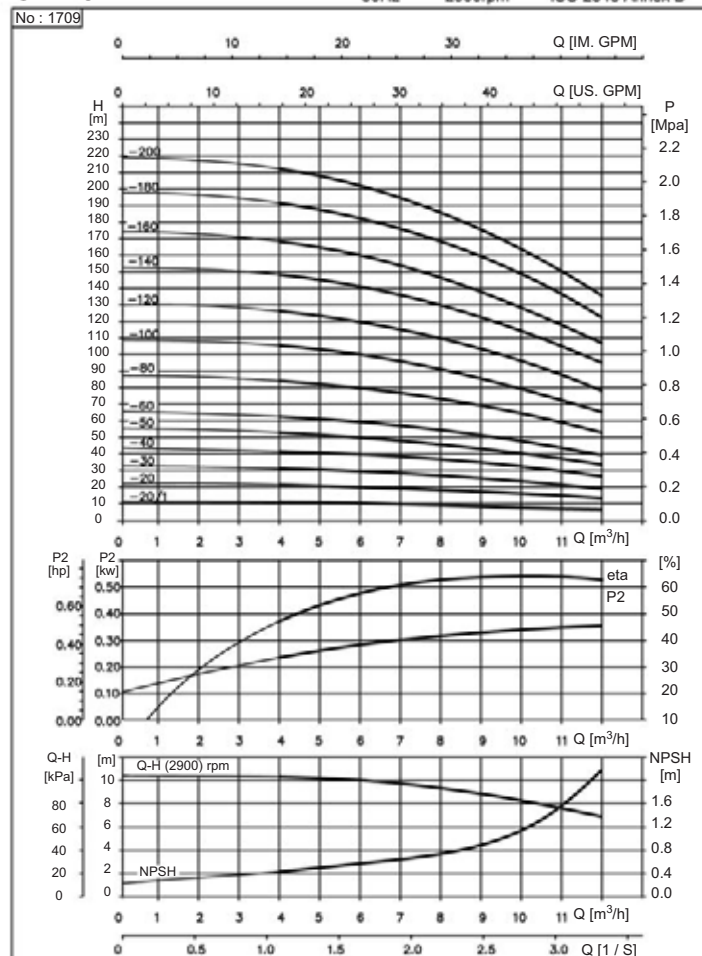
GVR4



Specification; - for 50 Hz 2900 rpm

Model	Motor Kw	Q m3/h	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
GVR4-20/1	0.75	Head in meters	10	9.5	9.3	9.0	8.5	8	7	6
GVR4-20	0.75		20	19.5	19	18	17	16	14	13
GVR4-30	1.1		30	29.5	28.5	27	25	24	21	19
GVR4-40	1.5		41	39.5	38	36	34	32	28	26
GVR4-50	2.2		52	50	48	45	42	40	36	32
GVR4-60	2.2		62	60	57	54	51	48	43	39
GVR4-80	3.0		83	80	77	73	69	65	58	52
GVR4-100	4.0		104	100	97	92	87	81	73	65
GVR4-120	4.0		124	120	116	111	104	97	87	78
GVR4-140	5.5		145	141	136	130	122	113	102	92
GVR4-160	5.5		166	161	156	148	139	130	118	106
GVR4-180	7.5		187	182	175	167	157	146	134	120
GVR4-200	7.5		208	202	195	186	175	163	150	135

GVR8

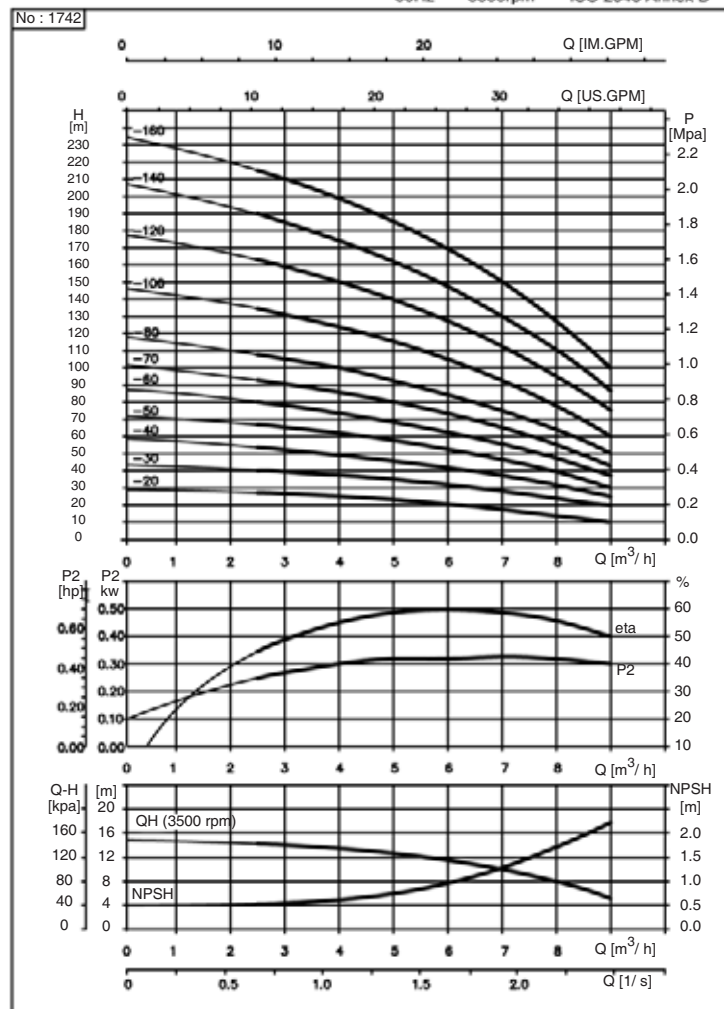


Head and power ratings apply to media with a density of $\rho = 1 \text{ kg/dm}^3$ and a kinetic viscosity of $20 \text{ mm}^2/\text{s}$.

Specification; - for 60 Hz 3500 rpm

Model	Motor Kw	Q m ³ /h	2.5	3	4	5	6	7	8	9
GVS4-20	0.75	Head in meters	26	25	23	21	19	16	14	11
GVS4-30	1.1		40	39	36	32	30	26	22	18
GVS4-40	1.5		53	52	48	44	41	35	31	24
GVS4-50	2.2		66	65	60	55	51	44	39	30
GVS4-60	2.2		80	78	73	67	61	54	47	36
GVS4-70	3.0		93	91	85	78	71	63	55	42
GVS4-80	3.0		107	104	97	90	82	73	63	49
GVS4-100	4.0		134	130	121	113	103	92	80	61
GVS4-120	4.0		161	156	145	136	125	111	96	74
GVS4-140	5.5		188	183	170	159	146	130	112	86
GVS4-160	5.5		215	210	196	183	168	149	128	99

GVS4



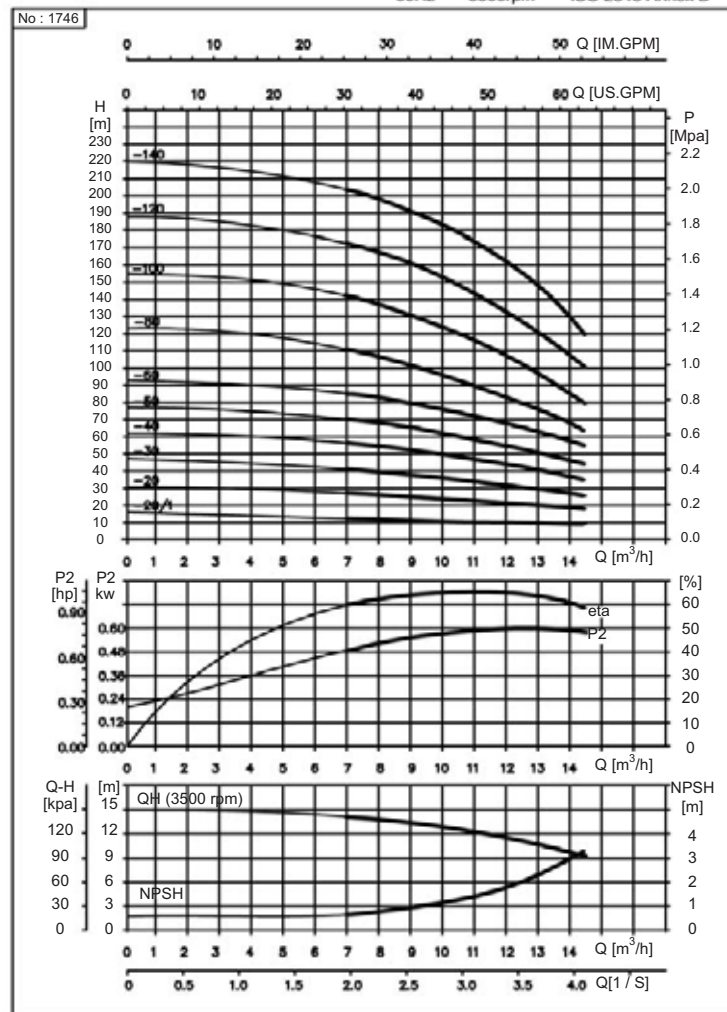
Head and power ratings apply to media with a density of $\rho=1\text{kg/dm}^3$ and a kinetic viscosity of $20\text{ mm}^2/\text{s}$.

Specification; - for 60 Hz 3500 rpm

Model	Motor Kw	Q m3/h	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
GVS8-20/1	0.75	Head in meters	13	12	11.5	11	10.5	10	9.5	9
GVS8-20	1.5		27	26	25	24	23	22	20	18
GVS8-30	2.2		41	40	38	37	35	33	31	28
GVS8-40	3.0		55	54	52	50	47	45	42	38
GVS8-50	3.0		70	68	65	63	59	56	52	48
GVS8-60	4.0		85	82	78	76	72	68	63	58
GVS8-80	5.5		115	111	105	101	97	91	85	78
GVS8-100	7.5		145	140	132	126	122	115	107	98
GVS8-120	7.5		175	169	160	152	148	139	129	118
GVS8-140	11		205	198	188	179	174	163	152	139

GVS8

60Hz 3500rpm ISO 2548 Annex B



Head and power ratings apply to media with a density of $\rho = 1 \text{ kg/dm}^3$ and a kinetic viscosity of $20 \text{ mm}^2/\text{s}$.

Fire Pump Controllers



All Fire Pump Controllers are factory assembled, wired, tested as a unit and confirmed to all requirements of the latest edition of NFPA-20 (Centrifugal Fire Pumps) and NFPA-70 (National Electrical Code). Controllers are listed by Underwriters Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, CSA, and Standard for Industrial Control Equipment (CUL) and approved by Factory Mutual (FM). All controllers are Y2K compliant. This component plays a vital role in fire pumps as it controls the entire system. It is selected as per customer choice if any, otherwise it can be either tornatech, firetrol, hubble lexington or joslyn clark.

Electric Fire Pump Controllers in general are classified by starting method, as full voltage or reduced voltage starting. The distinguishing factor in these starting methods is the amount of current (amperage) that is drawn by the motor during it's initial starting process (inrush). The normal power source must be able to handle the current inrush that occurs during starting. Full voltage accross the line starting peak inrush current is approximately 6 times the full load motor current. 3-phase- 3 wire motor connection assure error free field installation and simple change of motor direction of rotation, which is ment to be used where the capacity of electric power source and the supply utility permits full voltage starting of squirrel cage motors (not recomendado to use on genset installation due to high in rush current). Fire controllers are generally provided in single unit but we provide individual controller to all individual units like the following.

Electric pump control
Diesel pump control
Jockey pump control & Alarm panel

Electric pump control

TORONA Tech Fire pump Motor Controllers are designed to comply with the latest standard of the National Fire Protection Association for the installation of stationary pumps for fire protection (NFPA-20).



MODEL-CPA



Available in across the line starting, part winding, auto transformer, soft start/stop, primary resistor, and Y delta open/closed starting. Only quality components, all UL Listed or recognized and C.S.A certified are used throughout to assure the best possible reliability. Coordinated design engineered, built, tested and labeled by one manufacturer.

Voltages : 208 volts, 240 volts, 380-415 volts both in 50 Hz and 60Hz.
: 440-480 volts And 600 volts in 50Hz and 60Hz. (Also available in 3.3KV, 4KV, 6.6KV and above)

Horse Power : Up to 500 Hp (also available for power above 500 hp with need base features)

Standard features:

Isolating switch, molded case circuit breaker, ACL motor starter HP rated, 3 phase voltage surge suppressor, Provision for remote start circuit, Pressure switch with independent cut-in and cut-out, Manual operation, Micro controller module, Individual dry alarm contacts

Diesel Engine Pump fire controller

The Fire Pump Controller is a combined automatic and manual diesel engine driven fire pump controller. They are specifically designed and tested to be used with 12V or 24V fire. They are available for either positive or negative ground pump diesel engines systems.

Automatic starting of engine on pressure drop as detected by a built in pressure transducer. During cranking each battery is alternately connected to the starter for 15seconds. After 6 starts attempts, A failure to start alarm is initiated.

These controllers have all the required features to transmit signals to the engine, enabling to start and stop it, but also monitores engine conditions and provide audible and visual alarms for engine and controller conditions



MODEL-GPD

Jockey Pump controllers

Jockey Pump Controllers are intended for across-the-line starting of squirrel cage motors when pressure drops below a predetermined level, set on pressure switch. In a fire protection system applications it is required to maintain uniform system water pressure which is maintained by an automatic pressure maintenaning pump.

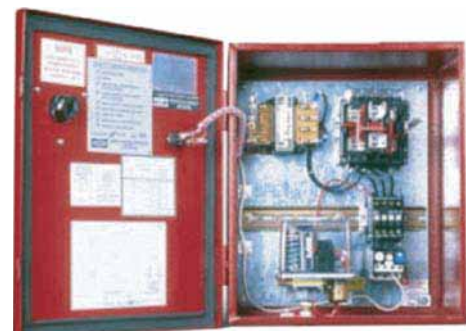
Jockey Pump Controllers improves the over-all system efficiency by detecting minor fire protection water system by bringing jockey or make-up pumps on line and they maintain the pressure if any drop due to leakage, Within set point limits without unnecessary cycling of the main fire pump.

Ratings

Voltage	Hz	Hp Range	Amps Withstanding
---------	----	----------	-------------------

Jockey pump Controller (three phase)

208	50/60	1 to 10	50,000
220/240	50/60	1 to 15	50,000
440/480	50/60	1 to 30	50,000
(120 to 480	50/60	to 30	50,000)



MODEL-JP

The following are included as standard with each controller:

Controller protection level:- NEMA-UL-CSA type 3 and 3R

Operating temperature limits:- 5 to 50 degree centigrade

Short circuit interrupting capacity:- 50 KA (RMS) at 120 volt to 480 volt

Main disconnect switch, motor contactor hp rated, short circuit and over load protection,

Pressure switch for clean water adjustable cut-in setting and independent differential (1 bar to 17 bar)

Alarm Panel

Alarm Panels are designed to meet the NFPA 20 specifications requiring a remote alarm panel when the pump house or pump room is not constantly attended. The alarm panel must be installed in a location that is under supervision at all times

These remote panels are designed to meet the NFPA 20 specifications requiring a remote alarm panel when the pump house or pump room is not constantly attended. These alarm panels can be used with electric motor driven or diesel engine driven fire pump controllers. The alarm panel should be installed in a location that is under supervision at all times.

Low suction pressure alarm and shutdown panels are designed to be used with electric and diesel engine driven fire pump controllers. They provide pump shutdown in the event a low suction pressure condition occurs. In addition, these panels provide audible and visible alarms for the following conditions:

Annunciations

- Audible alarm c/w silence push button for engine trouble, engine run and main switch in OFF or MANUAL position
- "Supervisory power on" red pilot light
- "Pump room alarm" red pilot light
- "Engine trouble" red pilot light
- "Engine run" red pilot light
- "Main Switch in AUTO" red pilot light



ALARM PANEL APD/APE



N.Y.C.
APPROVED

Fire Pump Accessories



Lifeco



The LIFECO Group of companies is one of the leading manufacturers of fire fighting accessories in the world. We have been serving both corporate and commercial clients across the Globe, offering a competitive and reliable service for more than 25 years.

LIFECO is committed to achieving the highest levels of quality in all our products and services. To this end, the Company maintains a quality system to ISO 9001 and our extinguishers are Approved to BS EN3 and carry the British Standards Kite Mark; "your guarantee of quality" along with CE mark, Marine approvals and Various European and South African approvals.

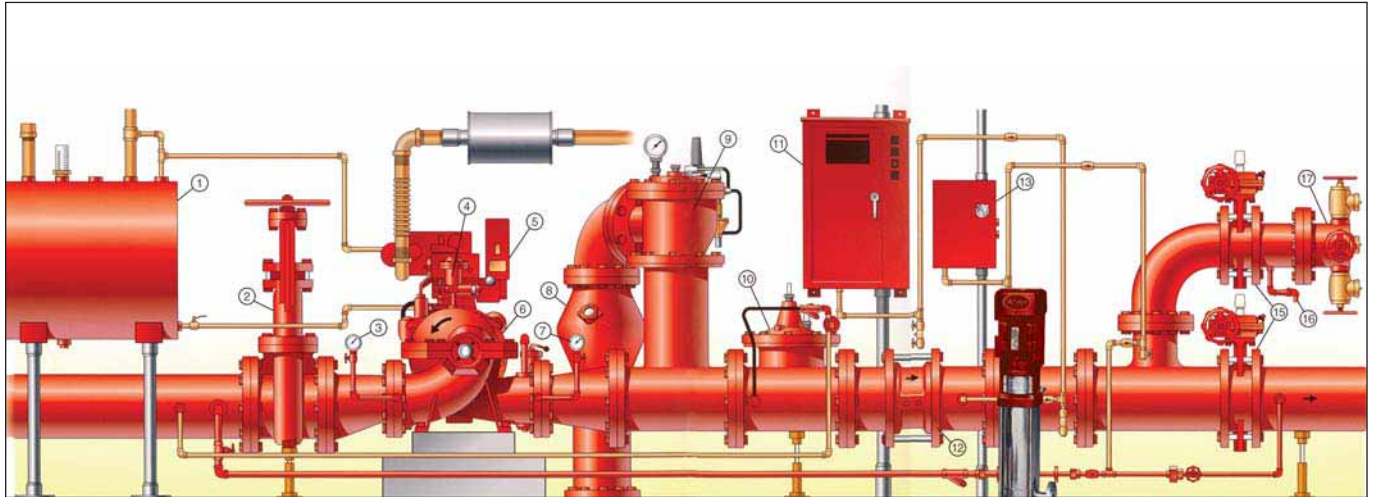
Our complete range of fire protection system such as sprinkler system, water spray systems are UL approved and Gate valves are UL and FM approved.

To include that we have introduced Fire doors with ½ hour to 3 hr fire rating doors UL and FM approved as well.

Various accessories are required for any fire pump installation. Specific needs vary depending upon the requirements of local insurance authorities as well as the individual installation. The current edition of the National Fire Protection Association (NFPA) pamphlet No.20 specifies many of the accessories required. LIFECO can provide approved Fire Pumps and a complete line of approved Fire Pump accessories. Available accessories include: hose valves, hose valve header, main relief valve, waste cone, concentric tapered discharge increaser, eccentric tapered suction reducer and splash shields.

All parts in the system is equally important and also plays a vital roll in efficient and reliable running of the unit in totality. The main component in the system being a centrifugal pump it has to be protected from conditions like no flow, it must be purged of air otherwise it can cause extensive damage to the pump.

Accessories for fire pumps



1. Fuel Tank Diesel Engine
2. Isolation Gate Value (suction)
3. Compound Suction Gauge
4. Automatic Air Release Value
5. Diesel Engine Drive
6. Horizontal Split Case Fire Pump

7. Discharge Pressure Gauge
8. Enclosed Waste Cone with Sight Glasses
9. Main Relief Value
10. Low Suction Pressure Shutoff Value
11. Fire Pump Controller
12. System Check Value

13. Jockey Pump Controller
14. Jockey Pump
15. Isolation Values
16. Ball Drip Value
17. Test Value Manifold with Hose Values, Caps & Chains

Gauges, Automatic Air release valve, Casing relief valve, Pressure sensing valve, Flexible Exhaust Connectors, Concentric Discharge increaser, Main relief valve, Enclosed waste cone, 90 deg Elbow, Check valve, Hose Valve, Header Gate Valve, Ball Drip valve.

Gauges: A suction and discharge gauge is furnished for each fire pump. With a minimum dial size of 3 1/2 inch, the pressure range shall be twice the working pressure of the pump with a minimum of 200 PSI. Our standard gauges read in PSI, have a range of 300 PSI and are compound pressure and vacuum type.



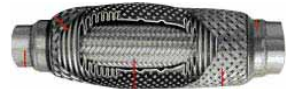
Automatic Air release valve: The automatic air release valve releases air that may accumulate in the Volute of the horizontal split case pumps. The valve is not required in self venting end suction pump. The minimum size is a 1/2 inch inlet and the valve is installed at the top of the pump volute.

Casing relief valve: The casing relief valve provides a vital function on electric driven units. When set properly, the valve permits enough water to discharge to a drain to prevent the pump from over heating when running at conditions near shutoff. The valve will have an adjustable range which is set in the field. Engine driven units do not require a casing relief valve for which water is continuously drawn through the pump for engine heat exchanger cooling purpose.





Flexible Exhaust Connectors: A flexible Connector is provided at the exhaust outlet of the engine. The connector relieves thermal expansion strains and helps dampen transmitted engine vibration.



Exhaust silencer: An industrial exhaust silencer providing 10-15 DBA reduction is furnished with each diesel unit; Other grades are available to suit individual job requirements.

Flow Meter System: In place of, or, in addition to the hose valve header with hose valves, we offer a complete line of UL/FM approved flow meter which can adequately test the fire pump performance in cases of liquid water supply. Available in calibrated venture design with a wall or pipe mounted dial meter reading in GPM. The system provides a $\pm 1\%$ accuracy, when installed properly. The venture principle provides a clog-free design and allows the most compact piping arrangement of any other flow meter design.



Eccentric Suction Reducer: The suction piping is sized such that the NPSH available will be greater than 19 ft. absolute, when operating at 150% of the rated capacity, but not less than the minimum values given by NFPA 20. The piping size may be different than the pump suction size necessitating the need for an eccentric reducer. An eccentric fitting is used to prevent the possibility of air pockets forming in the line as would be experienced if a concentric fitting were used.

Concentric Discharge increaser: The discharge pipe size shall not be less than the values given by NFPA 20. These values are generally different than the pump discharge size and hence the need for an Increasing or reducing fitting. Since our fire pumps have been designed specifically for fire pumps usage, the suction and discharge connections will best match the NFPA 20 minimum values. In most cases, when there is a need for reducer or increaser a fitting is eliminated, saving cost and installation time.



Accessories for fire pumps



Main relief valve: Pumps which are connected to diesel engine or steam turbine drivers, shall be equipped with a listed main relief valve. The main relief valve size shall be greater than or equal to the values given in NFPA 20. The valves are set to prevent a pressure on the fire protection system greater than it can withstand. Spring loaded and pilot operated type are available in UL-FM Design. The main relief valves are also used when the shut off Pressure plus the static suction pressure exceeds the rated system pressure.

Enclosed Waste Cone: The enclosed or open waste cone is connected directly to the main relief valve and provides a visual indication of the water discharging through the line. The fitting also increases the line size from the relief valve as required by NFPA 20. The enclosed cone is provided with a sight glass.



90 deg Elbow: Standard 90deg.elbows are required in the piping arrangement as shown for the main relief valve drain, hose header line, and as needed for any given layout. Which reduces pressure loss in the line by avoiding turbulence in the flow.

Check Valve: A listed check valve is furnished in the piping arrangement as shown. They are extremely effective in preventing back pressure or back flow features a low 0.5 PSI (0.03Box) cracking pressure differential and are capable of handling pressure to 275 PSI (19 Bar)





Gate Valve: Listed gate or butterfly valves are to be used when required in the system or as shown in the above typical system. Butterfly valves are for use only in the discharge assembly. Value opening is same as the inside dia of pipe. So that there is little pressure drop through a gate value. This value is used for throttling the flow.



Hose Valves: Hose valves are UL/FM approved and are furnished in the required quantity for a given fire pump size by NFPA 20. The threads will generally be NPT standard with caps and chain.



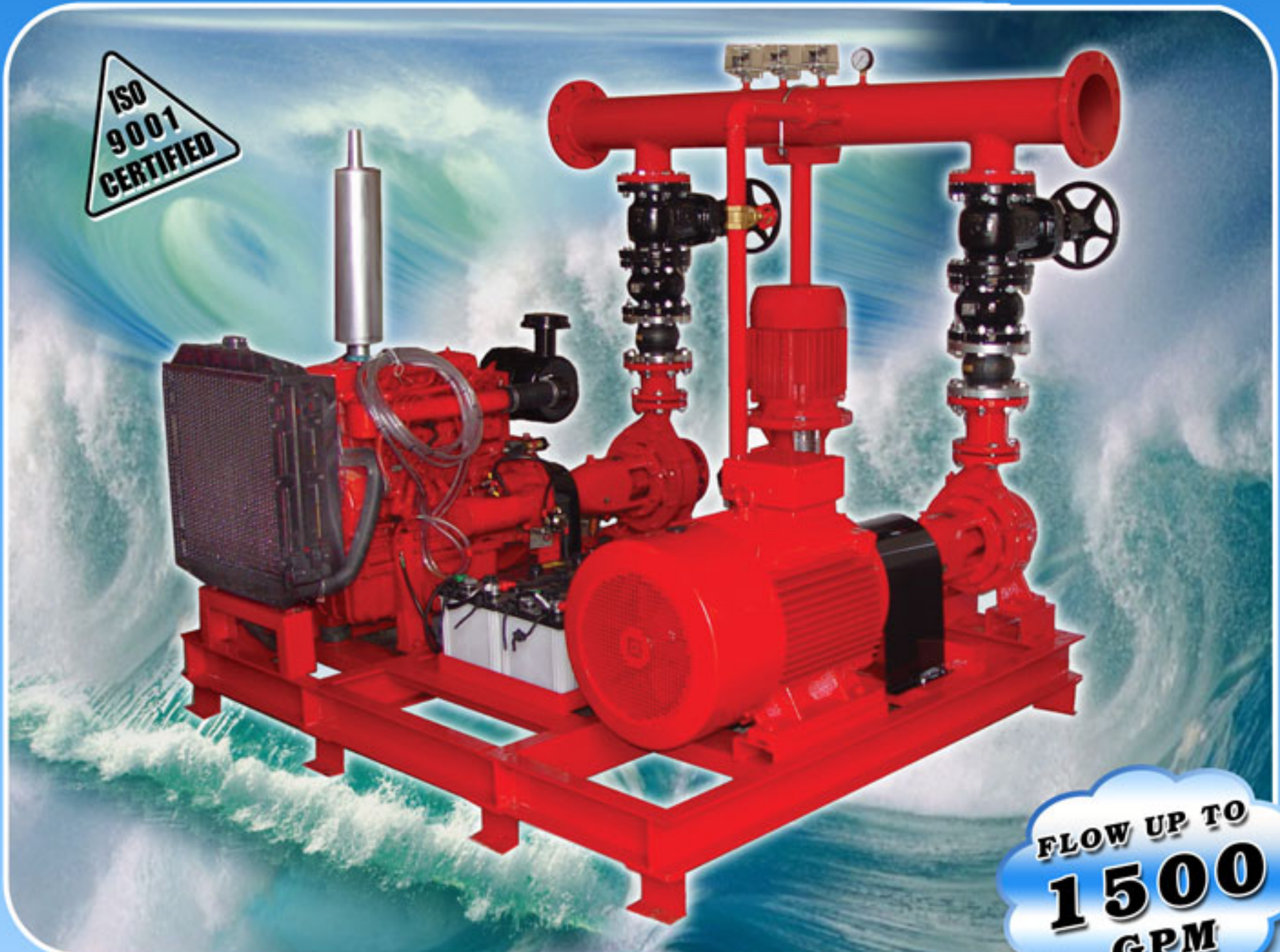
Ball Drip Valve: When the hose header is located outside, or at a distance from the pump, and danger of freezing exists, a ball valve or indicating drain valve shall be located in the pipeline to the hose header. The valves will allow the water to be drained when not in use. Thus prevents the line from breakage, in the winter due to freezing.



Jeddah
Dhammam
Madeena
Bahrain
Dubai



SFFECO FIRE PUMPS



Application of SFFECO Fire Pump:

- ☞ *Hose Rack Systems*
- ☞ *Hose Reel Systems*
- ☞ *Foam Systems*
- ☞ *Deluge Systems*
- ☞ *Hydrant Systems*
- ☞ *Sprinkler Systems*

**Protect
your
investment**

SFFECO Fire Pump Packages



Model : EDJ
(Electrical, Diesel & Jockey Pumps)

SFFECO's EDJ EXCEL series is a packaged fire pump set. It consists of a main pump (driven by an electrical motor), stand by pump (driven by diesel engine) and a jockey pump. This model comes equipped with a separate controller, or one that is attached to the skid. The package also contains discharge valves, common header, and accessories.



Model : EJ
(Electrical & Jockey Pumps)

SFFECO's EJ EXCEL series is a packaged fire pump set. It consists of a main pump (driven by an electrical motor) and a jockey pump. This model comes equipped with a separate controller, or one that is attached to the skid. The package also contains discharge valves, common header, and accessories.



Model : DJ
(Diesel & Jockey Pumps)

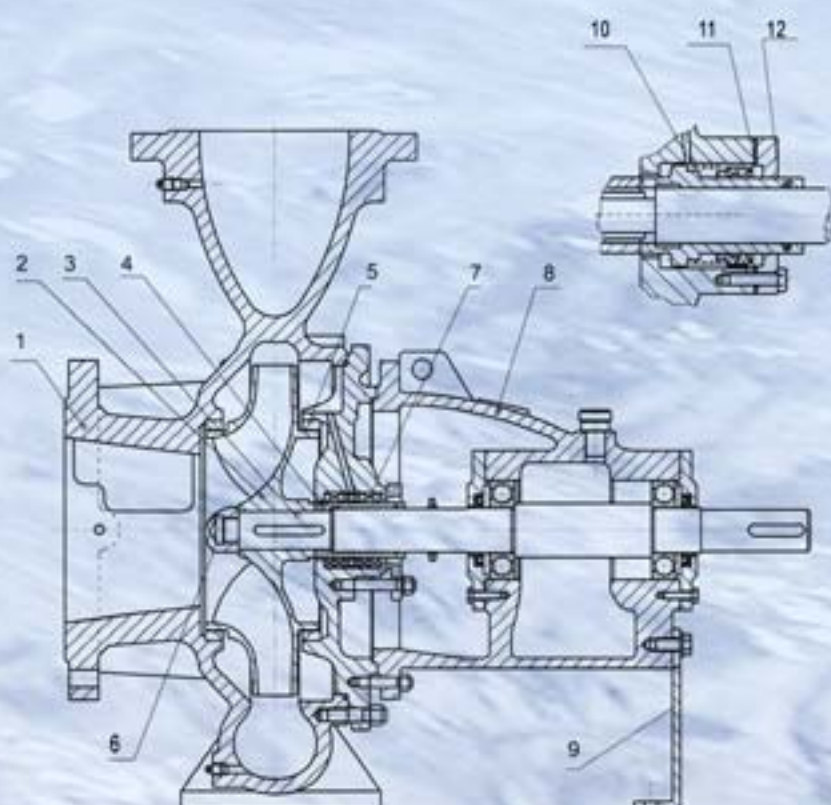
SFFECO's DJ EXCEL series is a packaged fire pump set. It consists of a main pump (driven by diesel engine) and a jockey pump. This model comes equipped with a separate controller, or one that is attached to the skid. The package also contains discharge valves, common header, and accessories.



Performance:

Discharge	DN	32-100mm
Capacity	Q	Max1500 GPM
Head	H	Max100m
Working Temperature	T	Max105°C
Working Pressure		Max 1 Mpa
Suitable for Speed of Motor		3500 RPM- 60 Hz. 2900 RPM- 50 Hz.
Suitable for Speed of Diesel Engine		2900 RPM

Features:

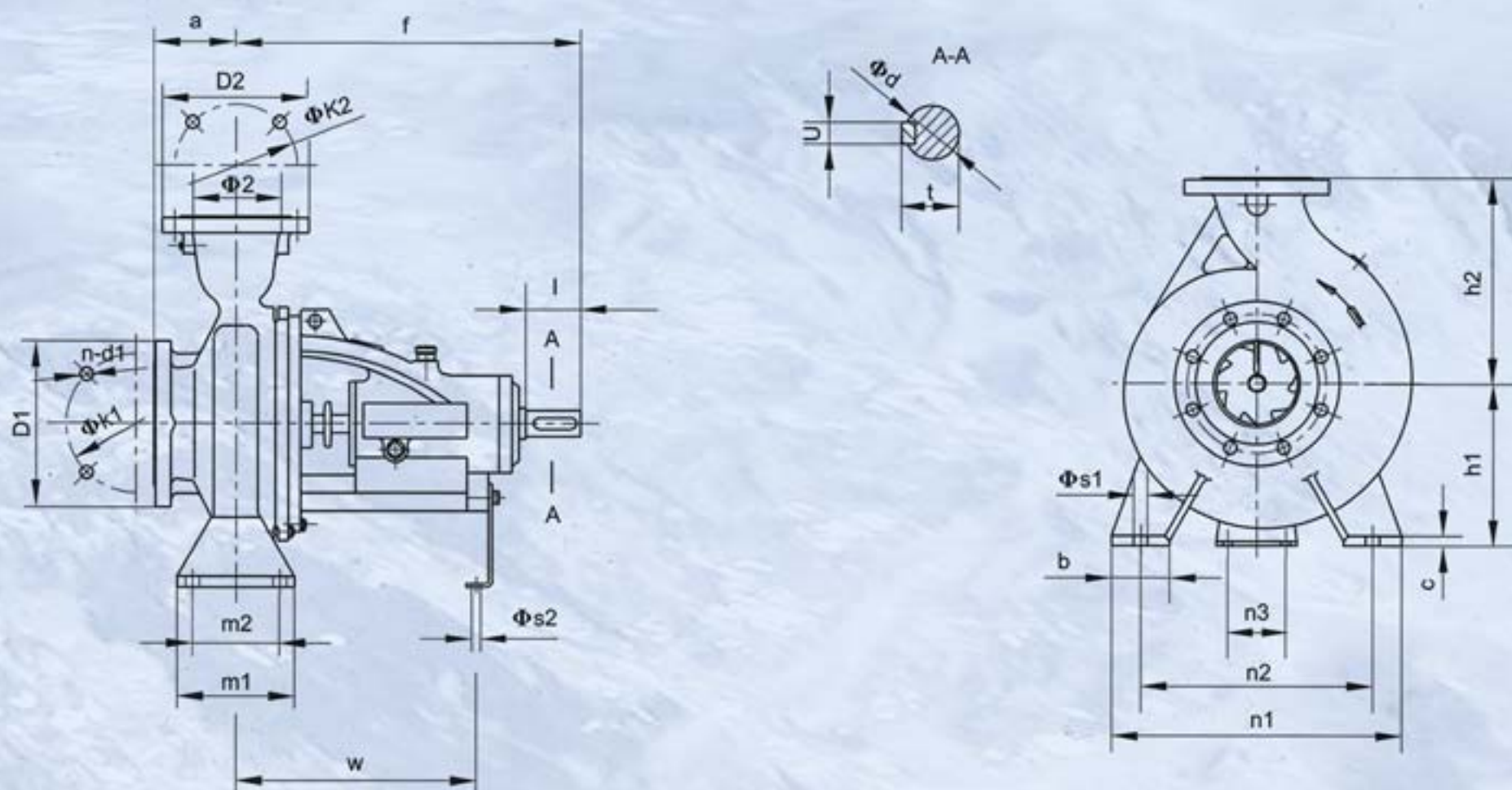


Structural drawing

- | | |
|------------------|---------------------|
| 1. Casing | 2. Impeller |
| 3. Shaft | 4. Shaft Sleeve |
| 5. Seal Ring | 6. Impeller Nut |
| 7. Packing Gland | 8. Bearing Bracket |
| 9. Support Feet | 10. Mechanical Seal |
| 11. Gasket | 12. Seal Gland |

Structure	All single stage, suction, back exposed and centrifugal pumps have outline dimension and gland structural dimension according to DIN 24255 standard.
Pump Casing	Cast Iron
Shaft Seal	Mechanical Seal according to DIN 24960/gland packing
Bearings	Sealed type bearing, pre-lubrication
Shaft Sleeve	Bronze
Shaft	420 SS
Connections	Standard : NPT threaded above 2" discharge : 125# ASA Flanges
Impeller	Bronze
Casing Ring	Bronze
ANSI Design	The ANSI standard adopted by NFPA 20 assures a quality design to provide years of operation.

Outside Dimensions for Horizontal End Suction



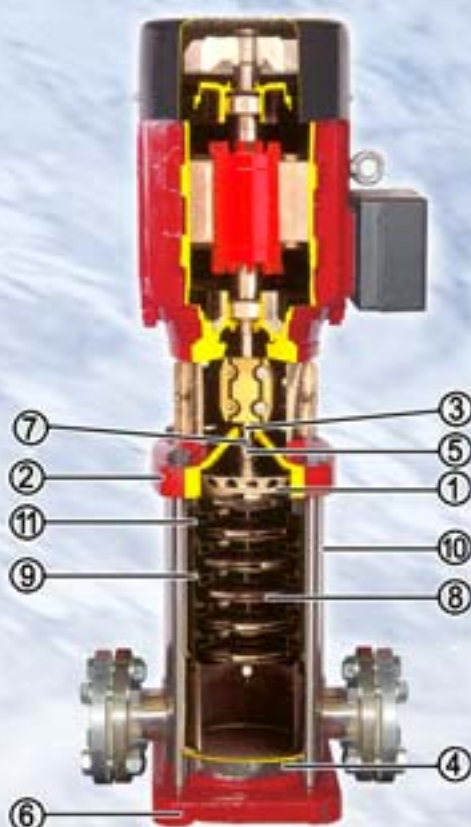
AIX Type	Shaft Dimensions	Pump Dimensions						Pump Foot dimensions											Shaft Face				
		O1	O2	a	f	h1	h2	D1	D2	c	m1	m2	b	n1	n2	Os1	n3	Os2	w	d	l	t	u
40/20	25	65	40	100	360	165	185	185	150	18	100	70	60	265	212	14	110	14	267	24	50	27	8
40/26	25	65	40	100	360	180	225	185	150	18	130	95	70	320	250	14	110	14	267	24	50	27	8
50/20	25	65	50	100	360	160	200	185	165	20	100	70	60	280	212	14	110	14	267	24	50	27	8
50/26	25	65	50	100	360	180	230	185	165	20	130	95	70	325	250	14	110	14	267	24	50	27	8
65/20	25	80	65	100	360	180	225	200	185	16	125	95	70	325	250	14	110	14	267	24	50	27	8
65/26	35	80	65	100	435	200	250	200	185	18	160	120	80	365	280	14	110	14	342	32	80	35	10
80/20	35	90	80	135	435	180	250	220	200	20	140	95	80	345	280	14	110	14	342	32	80	35	10
80/26	35	100	80	135	435	200	280	220	200	20	160	120	80	400	315	14	110	14	342	32	80	35	10
100/20	35	100	125	125	480	200	280	250	220	20	160	120	80	365	280	17.5	110	14	342	32	80	35	10
100/26	35	100	125	140	480	225	280	250	220	20	160	120	80	400	315	17.5	110	14	342	32	80	35	10

Jockey Pump (Vertical Pump)



Jockey pump is used to maintain pressure of the system and thereby preventing the main fire pump from starting too frequently. Its rated capacity should not be less than the normal leakage rate. The shut off head should be approximately 10 psi greater than the main fire pump but should not exceed the system's design pressure.

Brand	G-MAX PUMPS, U.K.
Type	Vertical multistage pump
Construction	Pump head cover, shaft, base, impeller, outer sleeve, and chamber are all made of stainless steel 304 or 316. Base plate & Pump head are made of Cast iron EN-GJL-200
Pressure Range	Up to 10 bars
Flow Capacity	Up to 75 GPM
Shaft Seal	Single spring carbon rotary vs. ceramic stationary seat
O-ring for outer sleeve	EPDM or FKM
Rubber parts	EPDM or FKM
Motor Protection	Single phase motors have a built in thermal overload switch whereas the three phase motors (3 KW and above) have a built-in thermostat (PTC) according to DIN 44 082
Motor	The motor is fully enclosed, fan-cooled, and includes 2-poles with principal dimensions in accordance with the EN standards. Electrical tolerances conform to EN 60034
Normal Operating Temperature	Ambient
	Liquid-Standard Design - -15°C to +90°C
	Liquid- Hot Water - -15°C to +120°C
Enclosure class	IP 55
Insulation Class	F



Models: GVR / GVS

1	Pump head	Cast iron EN-GJL-200
2	Pump head cover	Stainless steel 304
3	Shaft	Stainless steel 304 (or) 316
4	Base	Stainless steel 304 (or) 316
5	Shaft seal	Mechanical
6	Base plate	Cast iron EN-GJL-200
7	Rubber parts	EDPM or FKM
8	Impeller	Stainless steel 304 (or) 316
9	Chamber	Stainless steel 304 (or) 316
10	Outer sleeve	Stainless steel 304 (or) 316
11	O-ring for outer sleeve	EDPM or FKM

* Stainless Steel on request

Electric Motor & Diesel Engine



Electrical motor starts when the controller senses a large volume of water flow in the system.

Brand	HITEC, U.K.
Hitec design	EIC Standards
Model	HM Series
Rotor	Made of aluminum and insulated by low-carbon magnetic steel laminations,
Stator	Made of cathode copper and insulated low-carbon magnetic steel laminations.
End Shields	Cast Iron for both the drive end and non-drive end
Fan Cover	Steel sheet
Cooling Fan	Protected by a cover with degree of protection IP 2x.
Fasteners	Corrosion proof.
Protection	IP 55
Voltage	Standard motors are made for delta voltage of 380-415 with a frequency of 50 Hz and a voltage of 220-240 or 380-460V at 60 Hz.
Shaft	Superior grade steel with more torque absorbing capability.
Frame	Cast Iron- the body casting has longitudinal ribs, with integral feet for additional stability.
Horsepower rating	Up to 270 HP
Frequency	50/60 Hz.
The Hitec difference	Durable motor and components, trouble free performance low vibration design, silent functioning, easy maintenance, and corrosion proof construction.



Diesel engine starts when the controller senses a power interruption during operation or in the event of maintenance on the main pump or duty pump.

Brand	MEGAFORCE, U.K.
Diesel engine main parts and systems:	
Engine cylinder Block Assembly	Engine block includes the crankshaft case and cylinders, in which full-support main bearings are used. The assembly is made of alloy casting iron.
Cylinder Head Assembly	Cylinder head is a four-cylinder unit, made of alloy cast iron.
Crankshaft and Flywheel Assembly	Crankshaft is made of high strenght modular cast iron or alloy steel with four balance weights on the web.
Bearing	Main bearings are made of steel and high tin aluminum alloy
Piston and connecting rod assembly	The top of piston is designed to facilitate thermal flow, its skirt is of a variable oval barrel surface and with slipper ends. Connecting rods are made of forged steel.
Transmission gear	The timing on gear surface must be correctly set when gears are assembled, in order to ensure correct air and fuel supply.
Air Supply system	The valve train of this engine is of an overhead type. Camshaft is made of selected 45# steel on which three bearing journals and eight cam lobes (all case-hardened)are located.
Cooling System	Radiator
Starting System	Electric Starter Motor
Exhaust System	Flexible Exhaust System

General Description

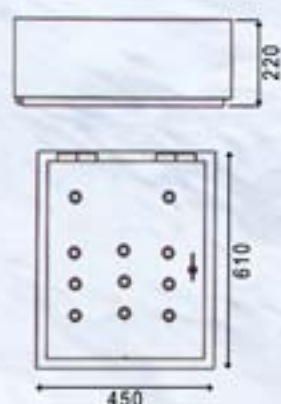
SFECO's Fire Pump Controllers are designed to control and monitor the operation of the main, standby, and make up pumps for both manual and automatic modes. The controller enables the diesel engine-driven pump to operate in case of power failure and substantial drop in pressure. A built in pressure switch detects any drop in pressure. The jockey pump controller initiates pumping when the designated water pressure in the system is lowered due to small leakages.

SFECO's controllers set is factory tested before shipment and is ready for immediate usage. SFECO's control circuits for pumps can be customized to fit different requirement and needs. SFECO's control panels undergo rigorous tests and quality procedures to ensure excellent performance.

Features

- Dry run protection (above 100 GPM pumps)
- DOL / Star Delta Starter circuit.
- Different mounting styles.
- Strong, reliable and elegant.
- NFPA / IP Standard Model on request.
- Low maintenance cost and available spare parts.
- Standard cable marking for easy maintenance.
- Automatic or Manual (test) operation.
- Compatible with any remote signaling or monitoring systems like BMS or FACP.
- Electronic Battery Charger (Current Sensing).
- Lamp Test Facility (Optional).
- Fault Trip Facility (other than dry run - Optional).
- Crank protection circuit for diesel engine.
- Delayed start for Fire Signal (optional).
- Low pressure cut-off (timer based) (Optional).

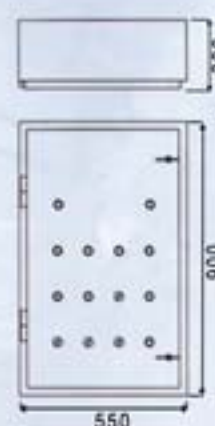
Enclosure Styles



Model A



Wall Mounted/Base Mounted, upto 250GPM(DOL)
Electrical, Engine, Jockey (Seperate or Combined)



Model B



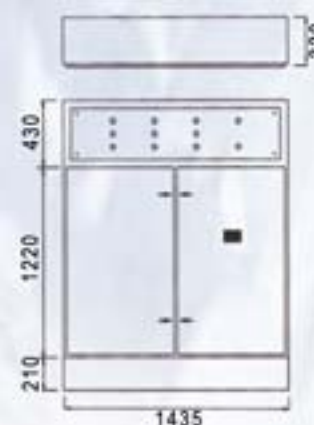
Wall Mounted/Base Mounted, upto 750 GPM (DOL)
Electrical, Engine, Jockey (Seperate or Combined)



Model C



Self-standing, upto 1500 GPM (Star-Delta)
Electrical, Engine, Jockey (Seperate or Combined)



Model D (Optional)



Self-standing, upto 1000 GPM (Star-Delta)
Electrical, Engine, Jockey (Combined Only)

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



**The Leading Manufacturer of
Fire Protection Equipment**

SFFECO

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory & Head Office:

2nd Industrial Area - Al-Kharj Road - P.O. Box 4441- Riyadh 14334

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

E-mail : riyadh@sffeco.com.sa

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307

Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968

Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969

Bahrain Branch : Telefax. 00973 17 721153

SFFECO INTERNATIONAL

International Sales Office:

Jebel Ali - Free Zone - Dubai - U. A. E

Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322

E-mail: dubai@sffecointl.ae

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO SPECIAL COUPLINGS, ADAPTORS AND BLANK CAPS



Unparalleled Innovation in **FIRE** Protection



Sl. No	Description	Model No.	Nominal Size
1	Storz - Serrated Tail	SFSZ 150*	1 ½, 2 ½ inch
2	Storz - Female Thread Adaptor	SFSZ 200*	1 ½, 2 ½ inch
3	NH American System Couplings (NST)	SFAS 300*	1 ½, 2 ½ inch
4	Instantaneous Adaptor (Double Male)	SFMIS 008*	65mm (2 ½ inch)
5	Female Instantaneous - Female Screw Thread Adaptor (NST or BSP)	SFHYD 068*	65mm (2 ½ inch)
6	Male Instantaneous - Male Screw Thread Adaptor	SFMIS 009*	65mm (2 ½ inch)
7	Female Instantaneous - Male Screw Thread Adaptor	SFMIS 010*	65mm (2 ½ inch)
8	Male Instantaneous - Female Screw Thread Adaptor	SFMIS 011*	65mm (2 ½ inch)
9	Female Screw Thread - Male Instantaneous Adaptor	SFMIS 222*	100mm Female, 65mm Male
10	Male Screw Thread - Female Instantaneous Adaptor	SFMIS 221*	100mm Female, 65mm Male
11	Instantaneous Adaptor (Double Female)	SFHYD 083*	65mm (2 ½ inch)
12	Male Instantaneous Adaptor - Blank Cap	SFMIS 012*	65mm (2 ½ inch)

Optional : Special sizes of the above items are also available upon request

*Specify : A/AL for Aluminium Alloy. B for Bronze. GM for Gun Metal.

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO SUCTION HOSE



Unparalleled Innovation in **FIRE** Protection



SUCTION HOSE

Hose material : Rubber / PVC
Colour : Black
Length : 10 Ft.
Optional : Special length and diameter of hose available upon request

SUCTION HOSE		COUPLINGS	
MODEL	SIZE	MODEL	SIZE
SSH 250	2 ½ inch	NSC 250	2 ½ inch
SSH 300	3 inch	NSC 300	3 inch
SSH 400	4 inch	NSC 400	4 inch
SSH 600	6 inch	NSC 600	6 inch

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO SYNTEX SERIES FIRE HOSE



Unparalleled Innovation in **FIRE** Protection



SYNTEX SERIES - FIRE FIGHTING HOSE (TWO LAYERS) SINGLE JACKET

- ☞ Manufactured according to BS 6391
- ☞ Outside: Synthetic woven textile reinforcement
- ☞ Inside: High tensile synthetic rubber (Optional: material of P.U.)
- ☞ Maintenance free: Do not need drying
- ☞ Unaffected by Mildew
- ☞ Rot-proof
- ☞ Abrasion resistance due to synthetic coating
- ☞ Excellent resistance to ozone

MODEL	DIAMETER, INCH	WORKING PRESSURE	BURST PRESSURE
SYNTEX40	1 1/2, 2, 2 1/2	10 BAR	40 BAR
SYNTEX50	1 1/2, 2, 2 1/2	14 BAR	50 BAR
SYNTEX60	1 1/2, 2, 2 1/2	17 BAR	50 BAR

Colours available : White, Red

Standard lengths : 23m (75 Ft.), 30m (100 Ft.), 60m (200 Ft.)

(Other lengths available upon request)

Applicable Standards: BS 6391 Type 1, Din 14811

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

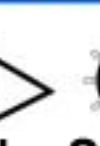
Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO

FIRE HOSE RACK CABINETS



Protect
your
investment



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



SFFECO is one of the leading company based in Riyadh, Kingdom of Saudi Arabia, specialized in the manufacturing of a wide range of fire protection equipment. SFFECO is committed to achieving the highest level of quality in all of its products and services. With this as the aim we maintain a quality system to ISO 9001. SFFECO is certified to ISO 9001 by TUV of Germany & LPCB of UK.

SFFECO has been awarded with License No: KM 73087 to use KITEMARK by British Standard Institute (BSI), United Kingdom for HOSE REELS conforming to BS EN 671 – 1.

Also SFFECO range of Portable Fire Extinguishers displays the BSI Kite Mark and conforms to BS EN3 standards; SFFECO has received the license to use the wheel mark for EN Extinguishers for use in Marine Applications as per Marine Equipments Directive (MED) 96/98/EC and amended by 2002/75/EC. SFFECO products are exported all over Europe & African countries.

Technical Features

- 🔥 Manufactured from steel or stainless steel, with thickness of 1mm to 2mm.
- 🔥 Outer edges rolled over for safe handling and aesthetic appearance.
- 🔥 Cabinet door handles are made of stainless steel and turn handles are chrome plated.
- 🔥 Electrostatic powder painted and oven baked to 200°C for appearance and protection from rust.
- 🔥 Cabinets can be surface mounted, recessed or semi recessed types.
- 🔥 Cabinets made of stainless steel are also available with hairline or mirror finish.
- 🔥 Different styles are available to meet architectural requirements.



UL Listed LIFECO Fire Hose Rack



LIFECO Semi Automatic Steel Fire Hose Rack

Semi-Automatic 1.5" hose rack, one piece construction of 16 gauge steel rack. Automatic release mechanism allows valve to be opened without release of water until last fold of hose is removed. Rack capacity is 30 meter (or can be lesser as per customer requirement) of 1.5"Ø hose.

PROTECT YOUR INVESTMENT



This PDF was created using the **Sonic PDF Creator**.
To remove this watermark, please license this product at www.investintech.com



SFR-150

Semi-Automatic Hose Rack Cabinet

Model SFR-150 & SFR-150S

100% synthetic single jacket hose 1.5" x 100 feet long, burst pressure 750 PSI.

Steel fire hose rack with hose held by movable pins in the bar.

1.5" hose valve with aluminium wheel with test pressure up to 300 PSI.

Optional : 2.5" Brass Angle Valve.

1.5" Adjustable fog nozzle with shut-off, straight, stream fog, Brass finish.

1.5" rack nipple made of cast brass.

Optional: UL fire hose rack valves, fog nozzles can be supplied upon request.



SFR-200ES

Semi-Automatic Hose Rack Cabinet with Extinguisher

Model SFR-200E & SFR-200ES

Model SFR-200E & SFR-200ES is similar to SFR-150 and SFR-150S respectively, but provision of extinguisher inside the cabinet. This cabinet can be designed to meet the interior decor and specific architectural design requirements.

6Kg Dry chemical powder extinguisher is provided with model SFR-200E

Optional: UL fire hose rack valves, fog nozzles can be supplied upon request.



SFR-200EVS

Semi-Automatic Hose Rack Cabinet with Extinguisher & Dry or Wet Riser Valve

Model SFR-200EV & SFR-200EVS

Model SFR-200EV & SFR-200EVS is similar to SFR-200E & SFR-200ES respectively, except for an additional 2.5" valve. The male outlet is NST thread with aluminium wheel and female cap with pin lug for fire hose connection. Cast finish available for valve and cap can be either polished or chrome plated.

Optional: UL fire hose rack valves, fog nozzles can be supplied up on request.

Model	INSIDE DIMENSIONS FOR 100 FEET HOSE									WALL OPENING SIZE FOR		
	SURFACE TYPE			RECESSED TYPE			SEMI-RECESSED TYPE			RECESSED TYPE		
	Width	Height	Depth	Width	Height	Depth	Width	Height	Depth	Width	Height	Depth
SFR - 150	650	850	160	650	850	160	650	850	160	670	870	170
SFR - 150S	650	850	160	650	850	160	650	850	160	670	870	170
SFR - 200E	750	850	180	750	850	180	750	850	180	770	870	190
SFR - 200ES	750	850	180	750	850	180	750	850	180	770	870	190
SFR - 200EV	750	940	200	750	940	200	750	940	200	770	960	210
SFR - 200EVS	750	940	200	750	940	200	750	940	200	770	960	210

* All Dimensions in mm

* S : Stainless Steel Frame and Door. Optional: Full Stainless Steel. * E : Extinguisher * V : Extra Valve

PROTECT YOUR INVESTMENT



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com



DECIDE ON YOUR CABINET STYLE

Step 1: Consider the wall depth & trim projection



Surface Mounted



Square Trim Semi-Recessed



Rolled Edge Semi-Recessed



Flat Trim Semi-Recessed

Step 2: Select the door style



Model - F
Full Metal Door



Model - V
Vertical Glass Door



Model - H
Horizontal Glass Door



Model - C
Circular Glass Door



Model - G
Full Glass Door

Step 3: Select the type of glass (Optional)



Clear Transparent Glass



Wired Type Transparent Glass



Wired Type Translucent Glass

Step 4: Determine the cabinet finish

- 1) Red Colour
- 2) White Colour
- 3) Stainless steel Hairline Finish
- 4) Stainless steel Mirror Finish

Valves, Nozzles & Accessories



Cast Brass Adjustable Fog Nozzle



1.5" or 2.5"
300 psi
Fire Dept. Valve



1.5" or 2.5"
300 psi. Double
Female Angle Valve



1.5" or 2.5"
175psi. Pressure
Restricting Valve



1.5" or 2.5"
Cast Brass
Rack Nipple

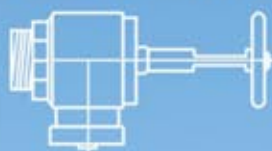


Cast Brass
Cap & Chain



Cast Brass
Pin Lug Fire
Hose Coupling

Operating Instructions



1. Open the valve



2. Pull off the hose completely



3. Point towards the fire.

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

The Leading Manufacturer of Fire Protection Equipment

SFFECO

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - P.O. Box 58469 - Riyadh 11515

Tel. 00966 1 2650070 - Fax. 00966 1 2652190

E-mail : riyadh@sffeco.com.sa

Riyadh : Tel. 00966 1 2063294 - Fax. 00966 1 2063295

Jeddah : Tel. 00966 2 6706009 - Fax. 00966 2 6760307

Dammam : Tel. 00966 3 8351961 - Fax. 00966 3 8351968

Madina : Tel. 00966 4 8660959 - Fax. 00966 4 8660969

Bahrain : Telefax. 00973 17 721153



SFFECO INTERNATIONAL

International Sales Office:

Jebel Ali - Free Zone

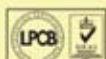
Dubai - U. A. E

Tel: 00971 4 886 1111

Fax: 00971 4 886 2322

E-mail: dubai@sffecointl.ae

web: www.sffeco.com



SFFECO Synthetic Hose Reel & Cabinets

Model SF/4000 - SF/5000



Unparalleled Innovation in **FIRE** Protection



Synthetic Hose Reel & Cabinets

MODEL: SF / 4000 - SF / 5000

Cabinet Components

Superior quality, 100% synthetic jacket hose, the outer fabric is made of circular woven synthetic fibre and root proof yarn, while inner layer is a substrate of tropical rubber applied by means of a special vulcanizing technique ensures long life, elasticity and flexibility. Hose dia 1.5" and 2.5" x 30 meter long equipped with brass coupling American NST thread. Outer hose lengths are available upon request.

Hose reel is made of 1.25 steel sheet and pressed out. The outer edge of the reel is rolled over to give a safe handling edge on the outer rims. The reel is mounted on swinging arm.

Landing valve 1.5", 2.5" size American NST thread. Other types are available upon request.

Brass jet branch pipe 1.5", 2.5" American NST, standard Model A. Other types Jet, Spray and Stop are available upon request as Model B and C.

All printings of operation instruction and labeling have been done by silk screen process. No stickers.

Design of Cabinets

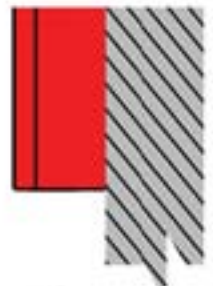
Cabinet and door leaf made of steel sheets with all around folded edges. For surface cabinets, they are equipped with ventilation holes in both sides.

Corrosion protection: cabinet and reel are painted with electrostatic powder paint oven backed to protect against rust and to give smooth finishing;

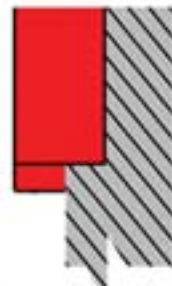
Operation instruction: each cabinet is supplied with operating instruction in silkscreen printed inside cabinet.

Unparalleled Innovation in **FIRE** Protection

Step 1: Consider the wall depth & trim projection



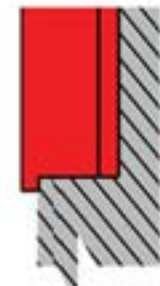
Surface Mounted



Square Trim Semi-Recessed

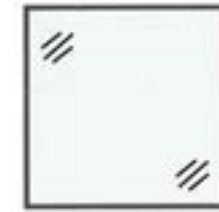


Rolled Edge Semi-Recessed

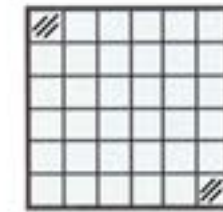


Flat Trim Semi-Recessed

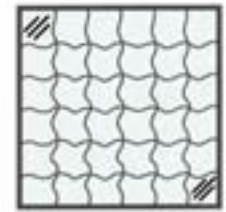
Step 3: Select the type of glass (Optional)



Clear Transparent Glass



Wired Type Transparent Glass



Wired Type Translucent Glass

Step 2: Select the door style



Model - F
Full Metal
Door



Model - V
Vertical
Glass Door



Model - H
Horizontal
Glass Door



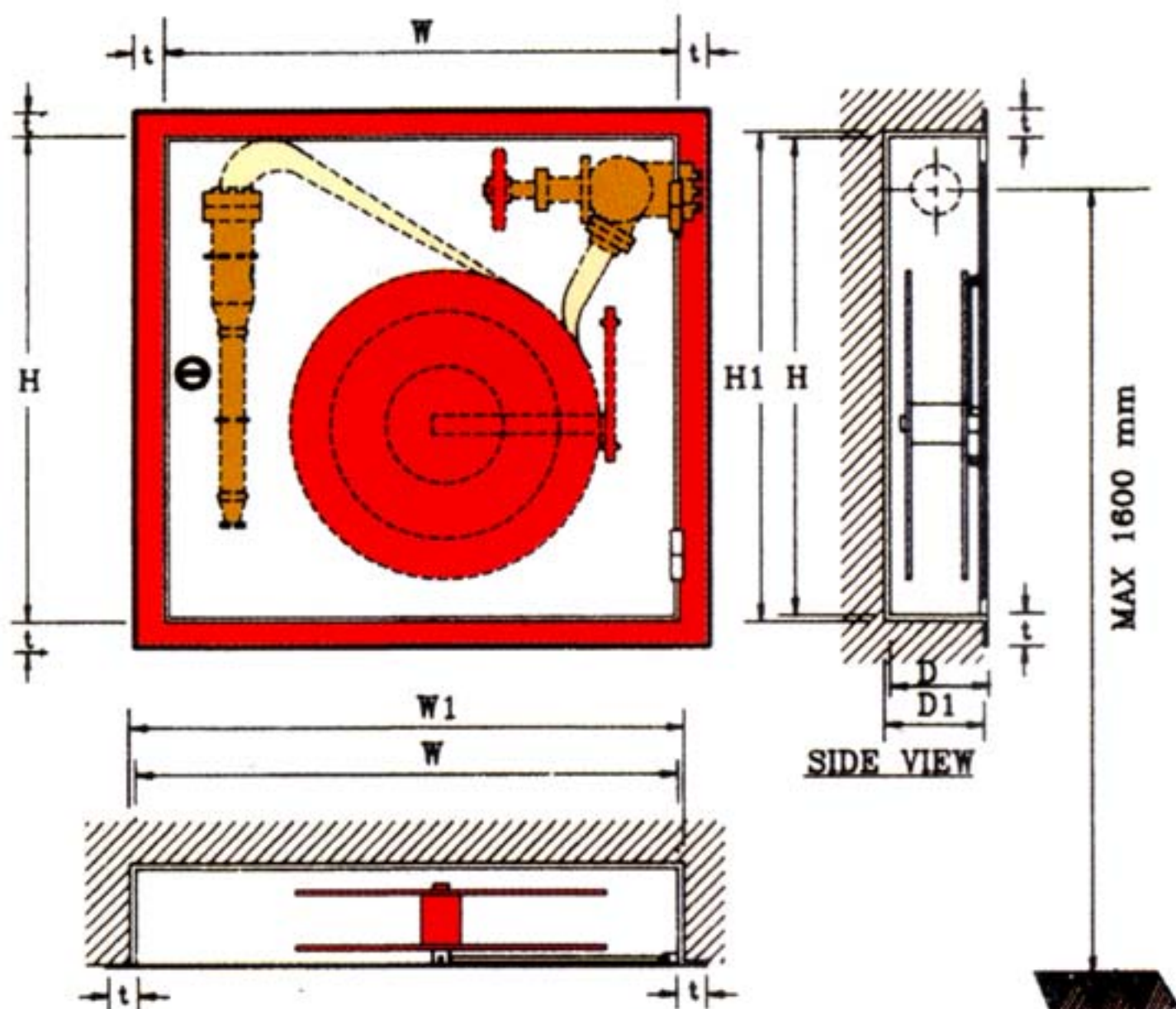
Model - C
Circular
Glass Door



Model - G
Full
Glass Door

Step 4: Determine the cabinet finish

- 1) Red Colour
- 2) White Colour
- 3) Stainless steel Hairline Finish
- 4) Stainless steel Mirror Finish



Types of Nozzles:



Model A



Model B



Model C
Only for SF/5000

Model	Size of Cabinet			Size for wall opening (for recessed cabinet)		
	Width - W	Height - H	Depth - D	Width - W1	Height - H1	Depth - D1
SF 4000	65 cm	65 cm	15 cm	67 cm	67 cm	16 cm
SF 5000	65 cm	65 cm	19 cm	67 cm	67 cm	20 cm

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com

SFFECO Synthetic Hose Reel & Extinguisher Cabinets



Unparalleled Innovation in **FIRE** Protection



1.5" SIZE MODEL SF/4200



2.5" SIZE MODEL SF/5200.

SFFECO Hose reel and extinguisher cabinet 1.5" size model SF/4200 and 2.5" size model SF/5200 are characterized for its high quality and performance in fighting fire and can be used effectively in factories, residential buildings, schools, etc.

CABINET COMPONENTS:

Superior quality, 100% Synthetic jacket hose, the outer fabric is made of circular Woven SYNTHETIC FIBRE and root proof yarn, while inner layer is a substrate of tropical rubber applied by means of a special vulcanizing technique ensures long life, elasticity and flexibility.

Hose Dia 1.5" x 30 M long for model SF/4200 and hose dia 2.5" x 30 M long for model SF/5200 equipped with brass coupling American NST thread. Variable hose lengths are available upon request.

Hose reel is made of 1.20mm steel sheets and pressed out. The outer edge of the reel is rolled over to give a safe handling edge on the outer rims. The reel is mounted on swinging arm.

Landing valve 1.5" size for model SF/4200 and 2.5" size for Model SF/5200 American NST thread.

Brass jet branch pipe 1.5" American NST for model SF/4200 and 2.5" American NST for model SF/5200. Standard model A. Other types Jet, Spray and Stop are available upon request as model B and C.

Dry chemical powder fire extinguisher 10 Lbs. or 6Kg. capacity. Other types and sizes of extinguishers are available upon request.

All printings of operating instructions and labeling are done by silk screen printing process. No stickers used.

The Model SF / 4600 and SF / 5600 Series are equipped with Hose Gate Valve 2.5" with Cap and Chain NST Thread.

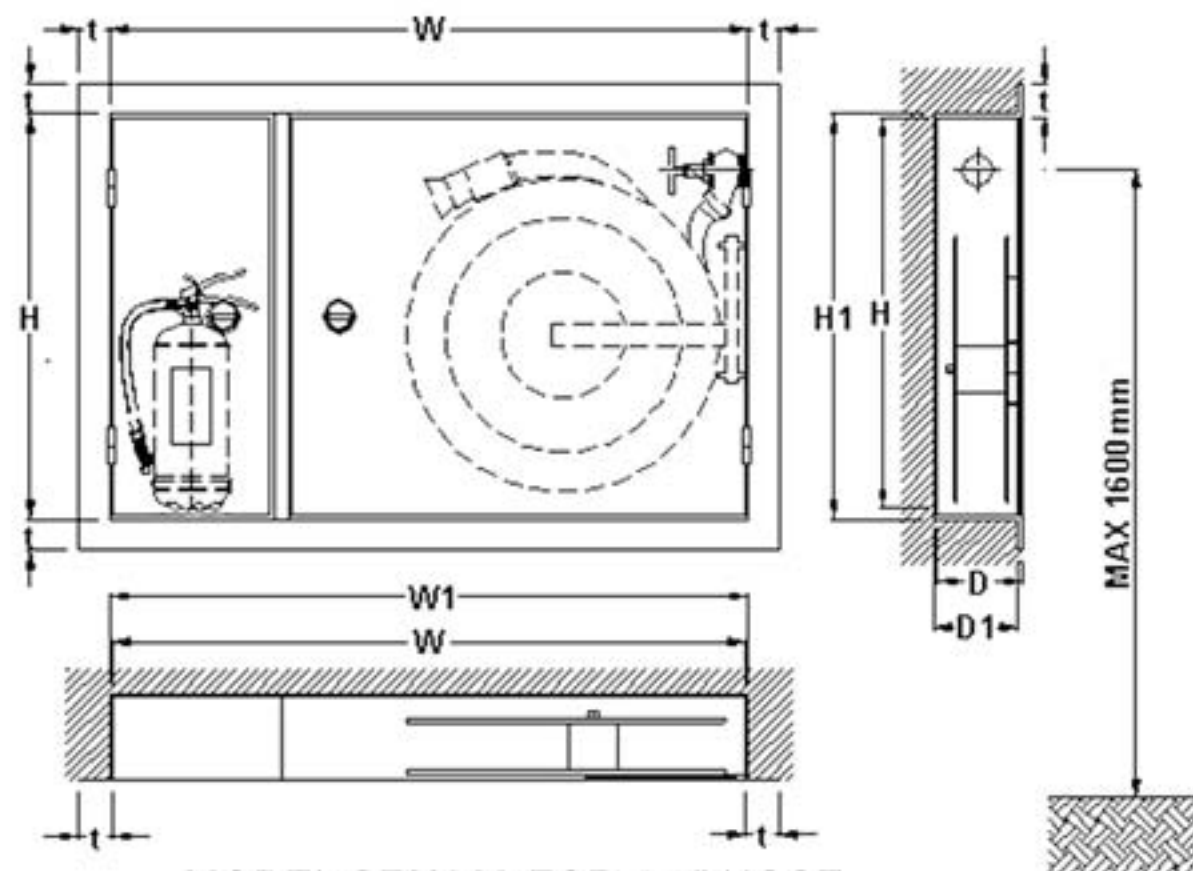
Cabinets are also available on stainless steel frame upon request.

SFFECO Synthetic Hose Reel & Extinguisher Cabinets



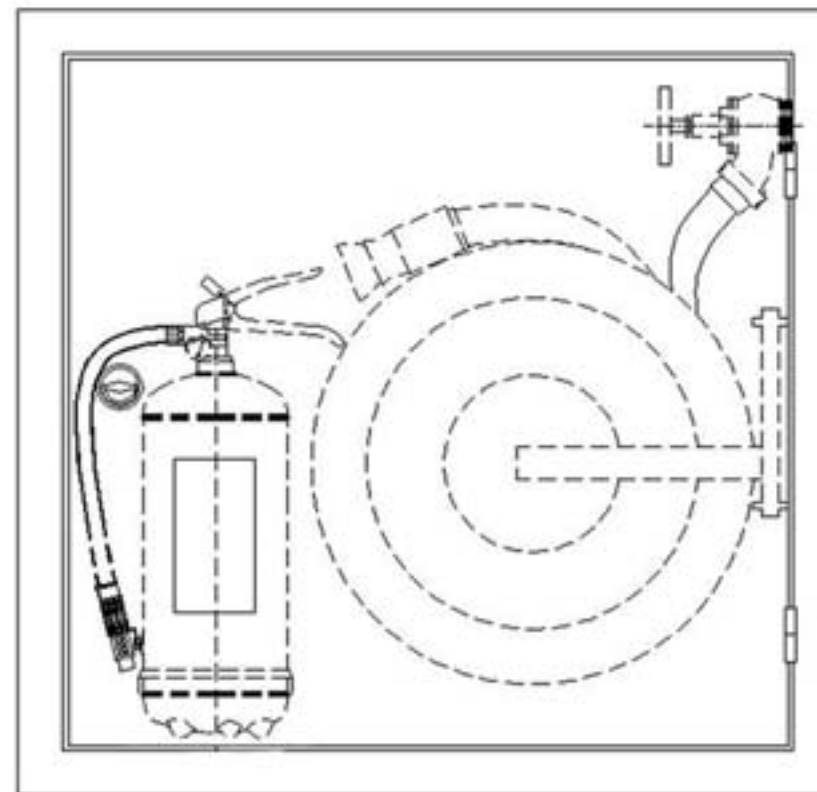
Unparalleled Innovation in **FIRE** Protection

FIRE HOSE CABINET WITH EXTINGUISHER AND DOUBLE DOOR



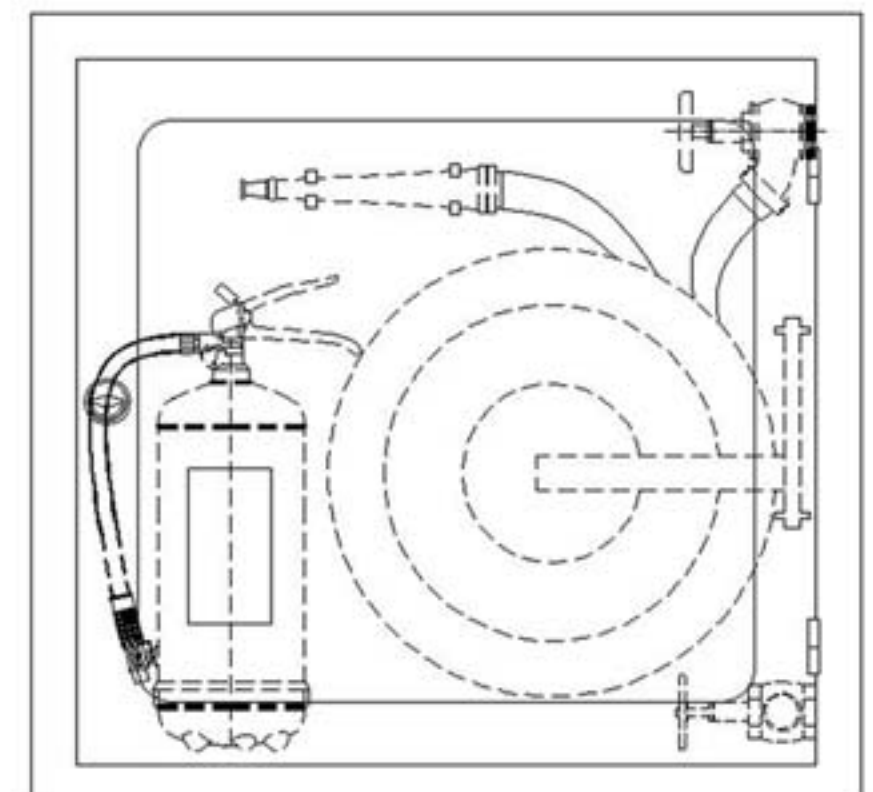
MODEL SF/4200 FOR 1.5" HOSE
MODEL SF/5200 FOR 2.5" HOSE
For Recessed Cabinet: t = 4cm.

FIRE HOSE CABINET WITH EXTINGUISHER AND ONE DOOR



MODEL SF/4400 FOR 1.5" HOSE
MODEL SF/5400 FOR 2.5" HOSE

FIRE HOSE CABINET WITH EXTINGUISHER ONE DOOR AND ONE HOSE GATE VALVE



MODEL SF/4600 FOR 1.5" HOSE
MODEL SF/5600 FOR 2.5" HOSE

Types of Nozzles



Model A.
Jet Brass Nozzle



Model B.
Adjustable brass
branch nozzle



Model C.
Three way branch nozzle
Made of aluminium and
hard plastic.

Cabinet Dimensions

Model	Size of Cabinet			Size for wall opening (for recessed cabinet)		
	Width - W	Height - H	Depth - D	Width - W1	Height - H1	Depth - D1
SF/4200	90 cm	65 cm	18 cm	92 cm	67 cm	19 cm
SF/4400	85 cm	65 cm	18 cm	87 cm	67 cm	19 cm
SF/4600	85 cm	90 cm	22 cm	87 cm	92 cm	23 cm
SF/5200	90 cm	65 cm	19 cm	92 cm	67 cm	20 cm
SF/5400	85 cm	65 cm	19 cm	87 cm	67 cm	20 cm
SF/5600	85 cm	90 cm	22 cm	87 cm	92 cm	23 cm

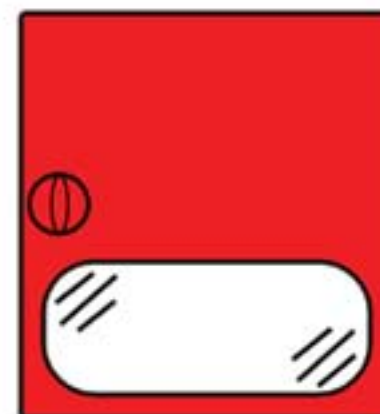
Cabinet Finish & Glass Selection



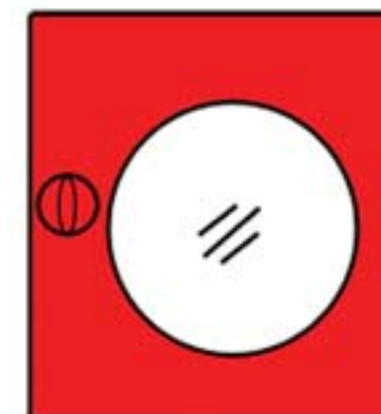
Model - F
Full Metal Door



Model - V
Vertical Glass Door



Model - H
Horizontal Glass Door



Model - C
Circular Glass Door



Model - G
Full Glass Door

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

SAUDI FACTORY FOR FIRE EQUIPMENT

Factory: 2nd Industrial Area - Al-Kharj Road - Riyadh
P.O. Box 58469 - E-mail : riyadh@sffeco.com.sa
Tel. 00966 1 2650070 - Fax. 00966 1 2652190

Sales Office: Al-Sitteen Street - Malaz - Riyadh
Tel. 00966 1 2063294 - Fax. 00966 1 2063295
P.O. Box 58469 - E-mail : malaz@sffeco.com.sa

SFFECO INTERNATIONAL

International Sales Office: Jebel Ali - Free Zone - Dubai - U. A. E
Tel: 00971 4 886 1111 - Fax: 00971 4 886 2322
E-mail: dubai@sffecointl.ae

Jeddah Branch : Tel. 00966 2 6706009 - Fax. 00966 2 6760307
Dammam Branch : Tel. 00966 3 8351961 - Fax. 00966 3 8351968
Madina Branch : Tel. 00966 4 8660959 - Fax. 00966 4 8660969
Bahrain Branch : Telefax. 00973 17 721153

www.sffeco.com



This PDF was created using the Sonic PDF Creator.
To remove this watermark, please license this product at www.investintech.com