

# FIRE PUMPS



**GENERAL PUMPS**

ESPAÑA

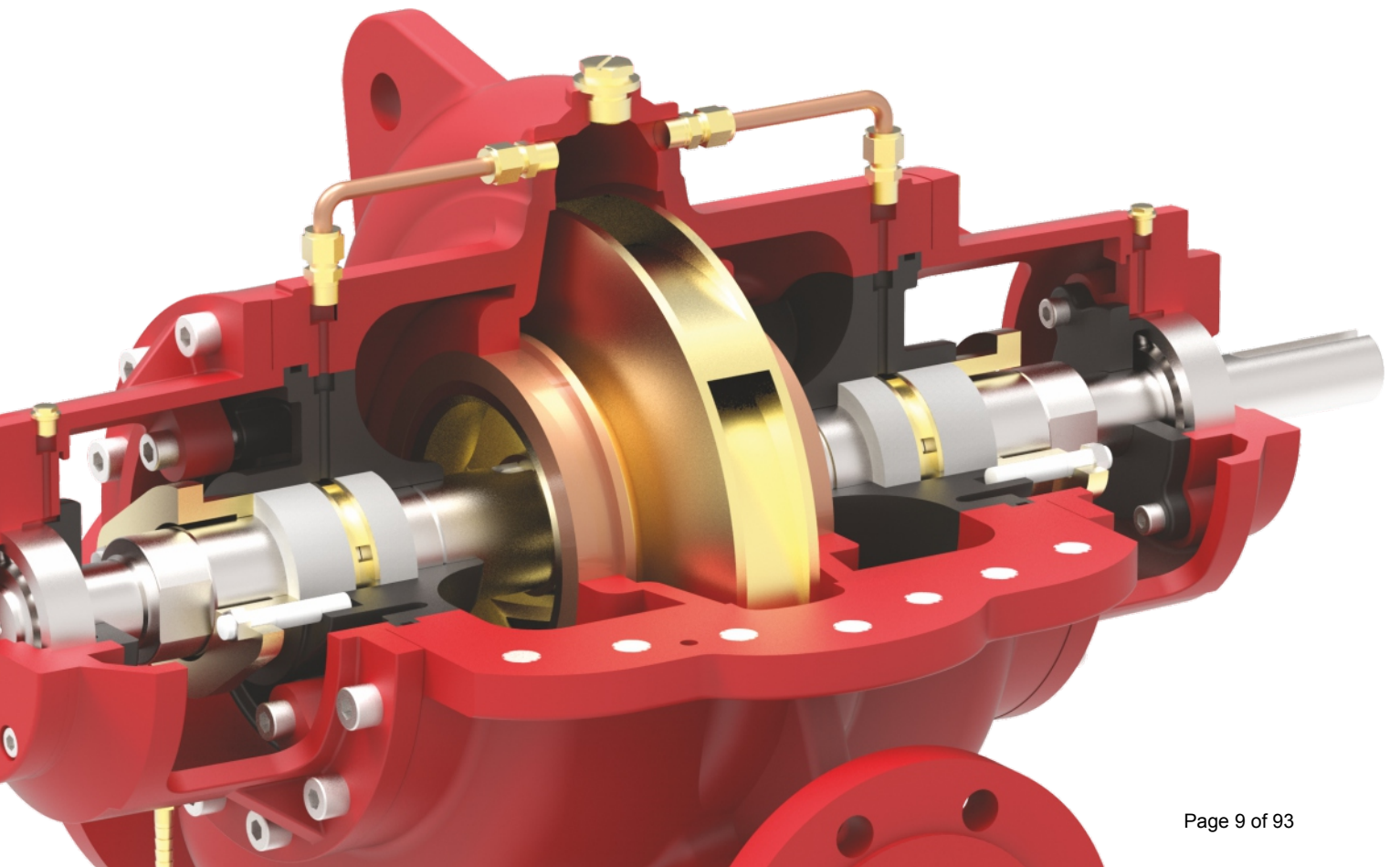


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APPROVED







# **GENERAL PUMPS**

## **ESPAÑA**

General Pumps SL., was established more than 25 years ago in Valencia, Spain.

We are a major manufacturer in Spain of a wide variety of water pumps for various applications. We have two factories in Spain with the total space of more than 2600 Sq. M.

Today we have one of the most comprehensive ranges of pumps for Fire, HVAC, Water Treatment and Plumbing Industry. The product line ranges from small domestic pumps to large Industrial application pumps. The pumps can be offered in various Metallurgies such as Cast Iron, Stainless Steel, Bronze, etc.

We have our product distribution channels in North and South America, Europe, Middle East and Far East. More than 75% of our sales revenue is generated through exports across the world.

We have a comprehensive range of Fire Pumps which are UL Listed and FM Approved.

The Quality Management System at our manufacturing facility is certified to the latest International Standard of ISO 9001.

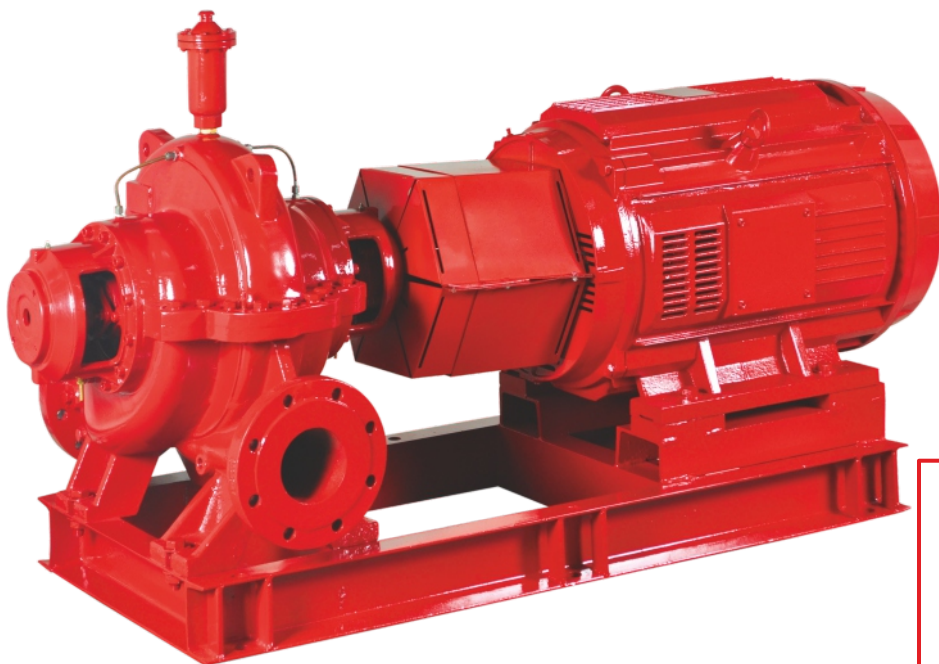
We believe in providing our customers with a complete solution for all their Fire Pumping needs. Our Engineers can assist you in making the right choice of product for your Fire Pumping Application.



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# Horizontal Split Case Fire Pumps



## Introduction

General Pumps offers FGHC series state-of-the-art fire pumps with diesel engine or electric motor driven, horizontal split case pump.

These pumps are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge range from 450 to 1250 USgpm and the head range from 4.4 to 14.7 bar.

These fire pumps meet or exceed the requirements of NFPA20.

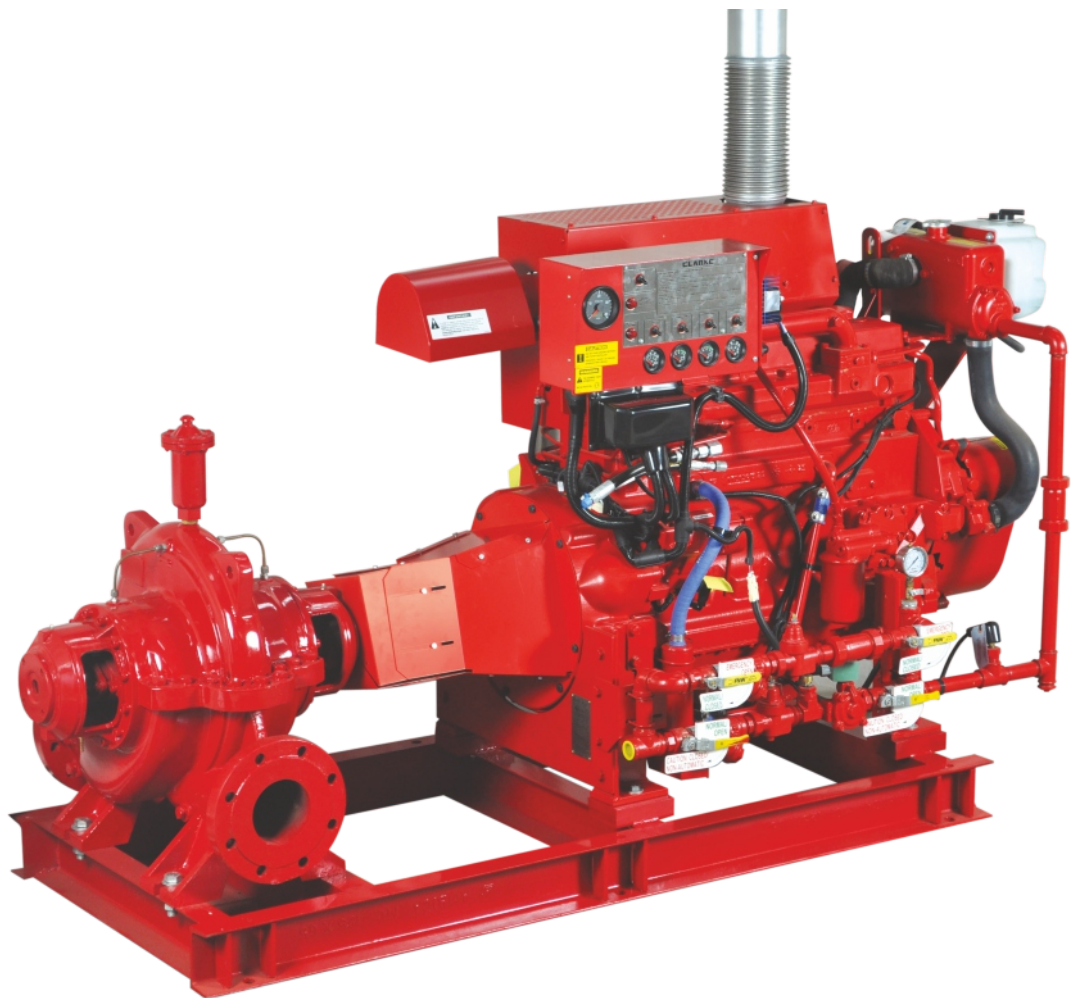
Installations of these pumps would ensure the safety of human life, buildings, and expensive equipments and plants. FGHC fire pumpset shall be used only where a positive suction is provided as specified in NFPA20.

These fire pumps typically consist of the following equipments:

- Horizontal Split Case pump.
- Electric motor or Diesel Engine
- Cooling system for Diesel Engine
- Fuel system for Diesel Engine
- Battery for Diesel Engine electric start
- Exhaust system for Diesel Engine
- Diesel Engine / Electric Motor Fire pump controller
- Suction and Discharge pressure gauges
- Air relief valve
- Casing Relief Valve for Motor Fire Pump
- Base frame

All above equipments except fuel supply tank and fire pump controller are mounted on a common base frame.

General Pumps can also supply Packaged fire pumping system with all required accessories ready for site installation.



## Applications

The FGHC fire pumps are used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

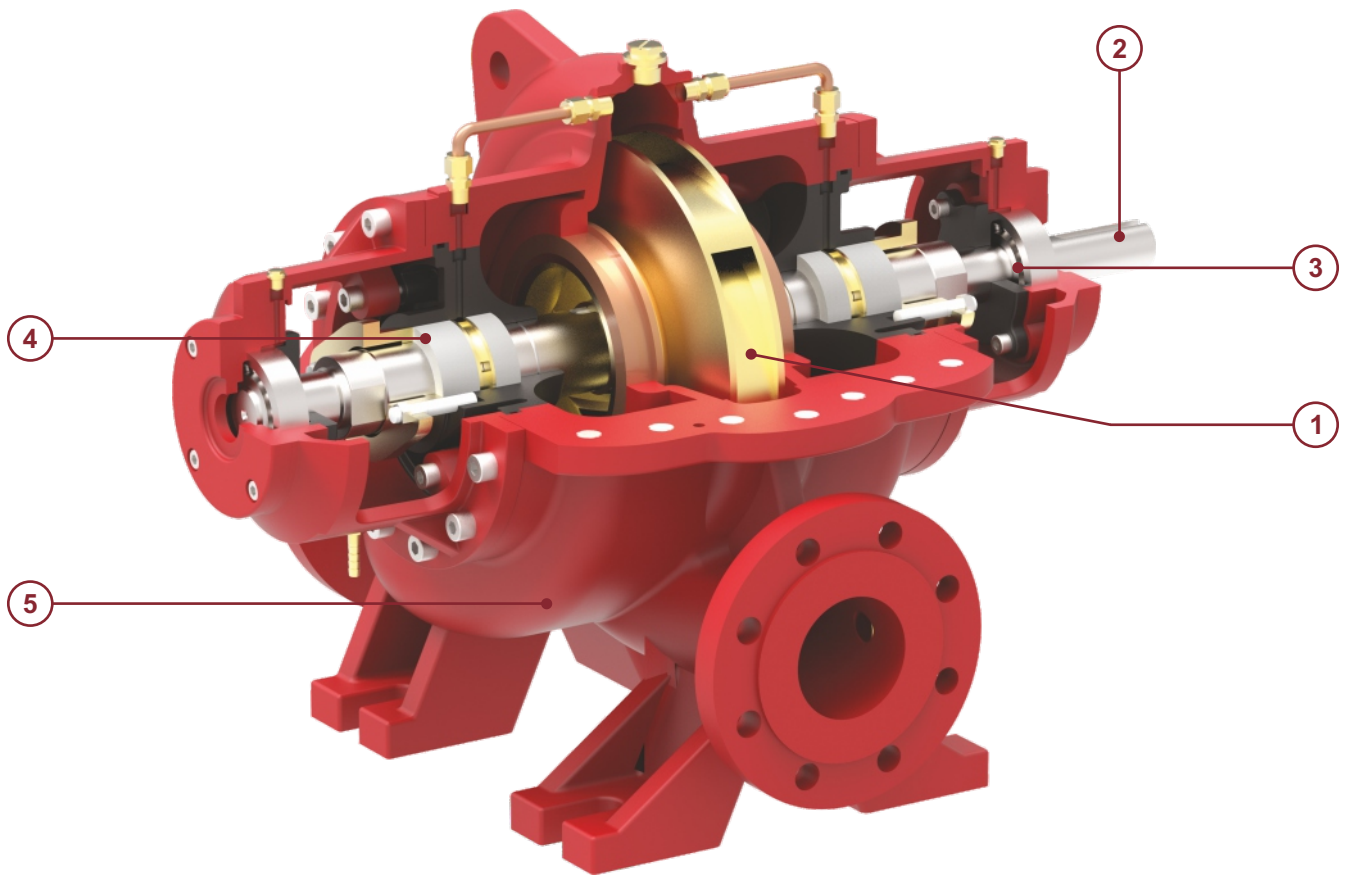
- Commercial complexes and high rise buildings
- Petrochemical industries and Gas plants
- Oil and Gas on-shore & off-shore platforms
- Oil terminals
- Airports and ports
- Jetties
- Marine applications
- Power stations and transformer stations
- Chemical industries
- Manufacturing plants
- Fire-work industries
- Warehouses/godowns.

## Features & benefits

FGHC fire pumps offers all features & benefits as mentioned in our GHC standard pump series data booklet. Following are the additional features & benefits offered by these pumps :

- State-of-the-art design fire pumping system.
- UL listed/FM approved/NFPA-20 design
- Diesel engine as well as electric motor driven pump
- Rugged construction
- Liberal water passages
- Automatic air relief valve
- Efficient operation
- Lower initial cost
- Reduced installation time and cost
- Simplified piping design
- Suitable for space saving installation systems and retrofit applications
- Easy access to all working parts
- Ease of maintenance
- Single source unit responsibility.

## General Pump Features



### 1 - Impeller & Casing

- Minimal axial thrust due to double-entry impeller.
- Impeller is dynamically balanced to grade G6.3 balance quality in accordance to ISO 1940-1.
- Impeller & Casing are designed using state of art CFD tools to ensure optimal performance.

### 2 - Shaft

- Heavy duty stainless steel shaft completely sealed and dry for zero corrosion.
- Short and rigid with negligible vibrations.
- Replaceable shaft protecting sleeves.
- No threads exposed to pump medium, long operating life and no corrosion.
- Adjustment-free assembly.

### 3 - Bearing

- Heavy duty and grease lubricated antifriction bearings for long service life.
- Open gland, enough space for service activities.

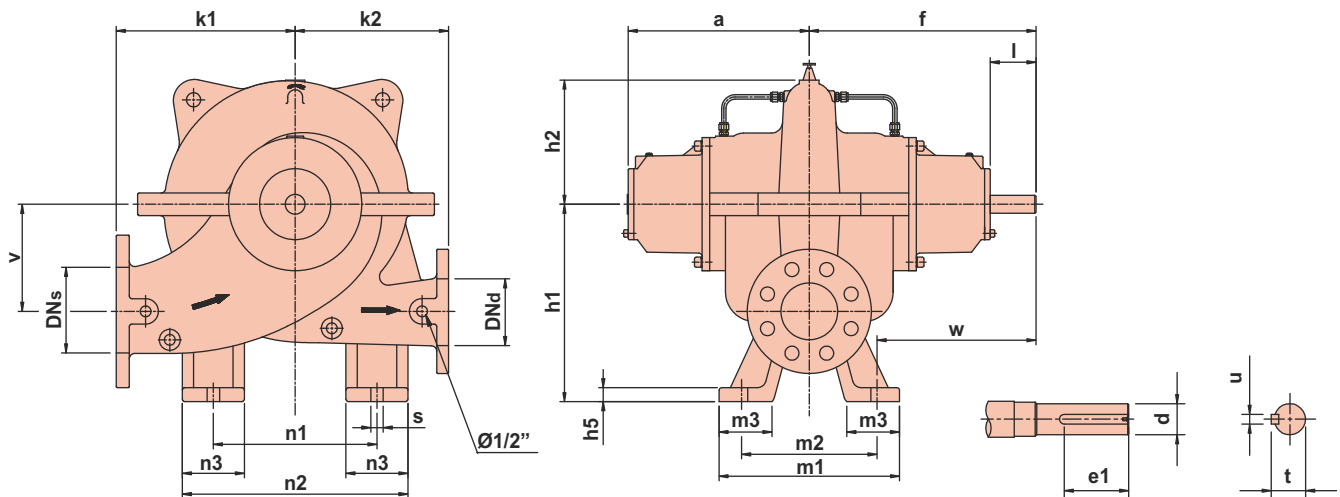
### 4 - Seal

- Asbestos - free, soft packed stuffing boxes.

### 5 - Casing

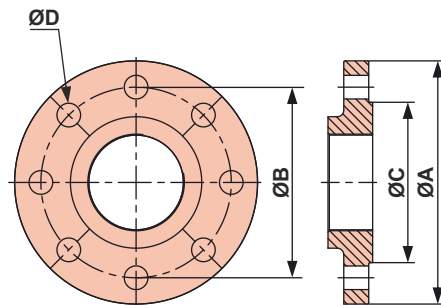
- In-line axially split design which permits removal of the complete Impeller Shaft Assembly without removing the pipes & motor.
- Short distance between bearings.
- Leak-tight due to compact joint flange with long Pre-stressed bolts.
- Counter-rotation possible with similar parts.
- Easy mounting self-aligning upper casing.
- Flange drilled as per ANSI B16.1 class 250.
- Smooth surface inside & CED coated for superior corrosion protection.
- Replaceable wear ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

## Dimensions



Model	DN <sub>s</sub>	DN <sub>d</sub>	k1	k2	v	n1	n2	n3	a	f	h1	h2	h5	s	w	m1	m2	m3	d	l	e1	u	t
<b>FGHC 125-100-250</b>	125	100	310	250	170	250	350	100	323	402	320	199	25	22	282	320	240	95	32	81	65	10	35,3
<b>FGHC 150-125-315</b>	150	125	350	300	195	300	440	140	333	434	375	244	25	22	309	350	250	99	38	102	85	10	41

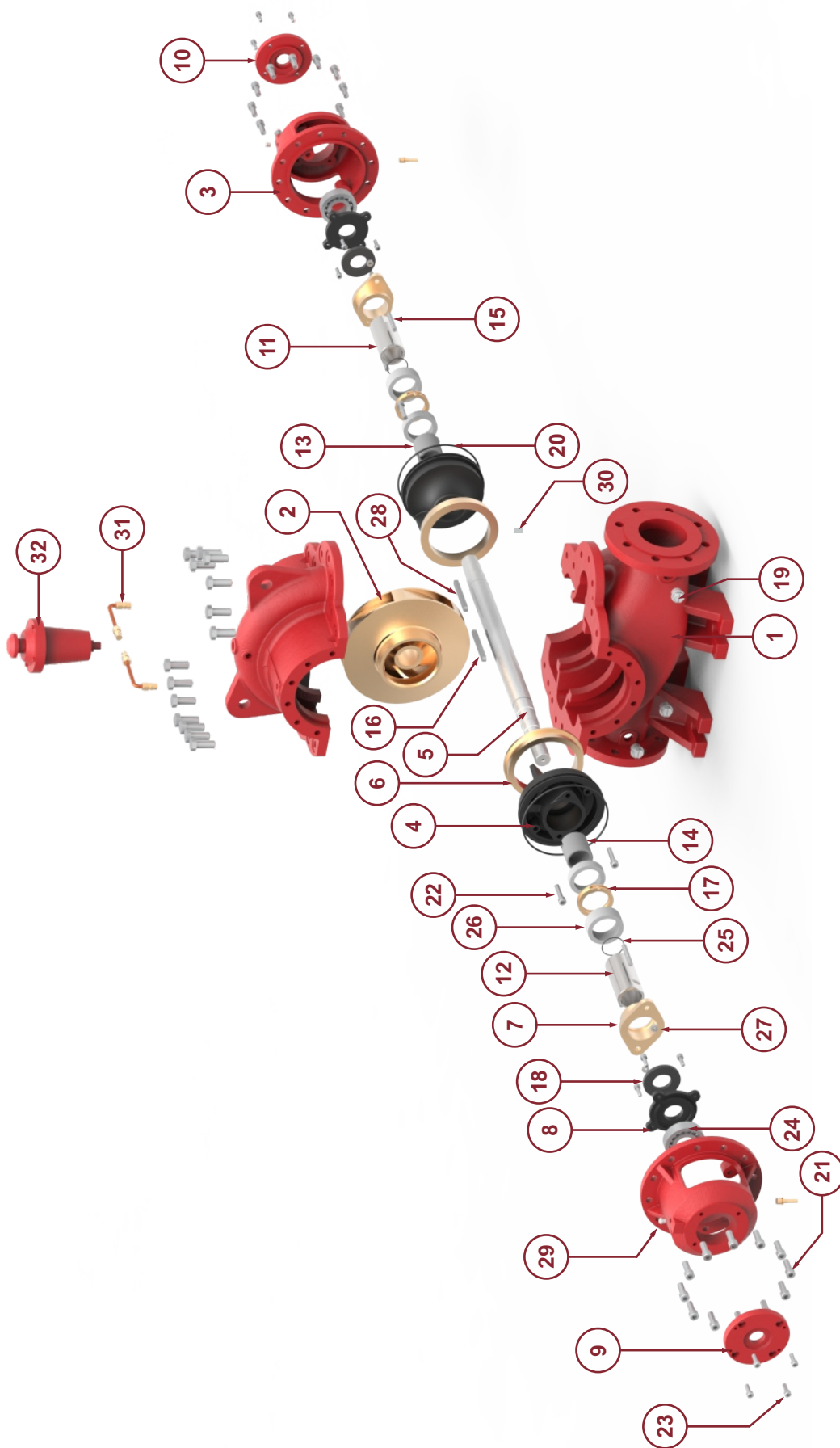
## Flange Dimensions



## ANSI 250 Flange Dimensions

Model	Suction				Discharge			
	ØA	ØB	ØC	ØD x Nos. of holes	ØA	ØB	ØC	ØD x Nos. of holes
<b>FGHC 125-100-250</b>	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
<b>FGHC 150-125-315</b>	320	270	246	Ø7/8" x 12	280	235	211	Ø7/8" x 8

# Exploded View



Part no.	Part name	Part no.	Part name	Part no.	Part name	Part no.	Part name
1	Split casing	11	R.H. Sleeve	21	Cap screw with spring washer	31	Hose pipe
2	Impeller	12	L.H. Sleeve	22	Cap screw	32	Automatic Air Release Valve
3	Bearing housing	13	Shaft sleeve	23	Cap screw		
4	Back cover	14	Shaft sleeve	24	Ball bearing		
5	Shaft	15	Stud	25	'O' ring		
6	Wear ring	16	Key	26	Graphite packing		
7	Gland	17	Lantern ring	27	Hex nut		
8	Internal bearing cover	18	Water thrower	28	Key		
9	External bearing cover	19	Drain plug	29	Grease nipple		
10	External bearing cover(drive)	20	'O' ring	30	Dowel pin		



## Approved Fire Pump Models with Rating

### RATED CAPACITY- 450 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGHC 125-100-250</b>	71-131	4.89-9	75-136	5.1-9.3	2900	5	4	1

### RATED CAPACITY- 500 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGHC 125-100-250</b>	71-131	4.89-9	74-135	5.10-9.3	2900	5	4	1
2	<b>FGHC 150-125-315</b>	131-214	9-14.75	131-214	9-14.75	2900	6	5	1

### RATED CAPACITY- 750 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGHC 125-100-250</b>	65-130	4.4-8.96	66-132	4.5-9.10	2900	5	4	1
2	<b>FGHC 150-125-315</b>	129-213	8.8-14.68	129-212	8.8-14.61	2900	6	5	1

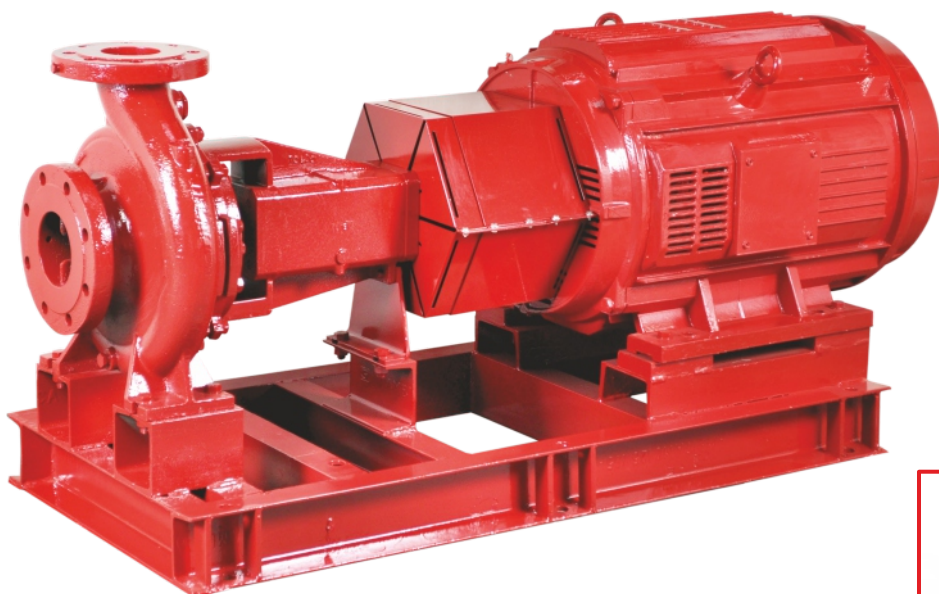
### RATED CAPACITY- 1000 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGHC 150-125-315</b>	127-210	8.75-14.4	126-209	8.68-14.4	2900	6	5	1

### RATED CAPACITY- 1250 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGHC 150-125-315</b>	121-205	8.34-14.13	119-204	8.20-14	2900	6	5	1

# End Suction Fire Pumps



## Introduction

General Pumps offers FGBS series state-of-the-art fire pumps with diesel engine or electric motor driven, single-stage End-Suction pump.

These pumps are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge range from 50 to 1000 USgpm and the head range from 3.72 to 9.9 bar.

These fire pumps meet or exceed the requirements of NFPA20.

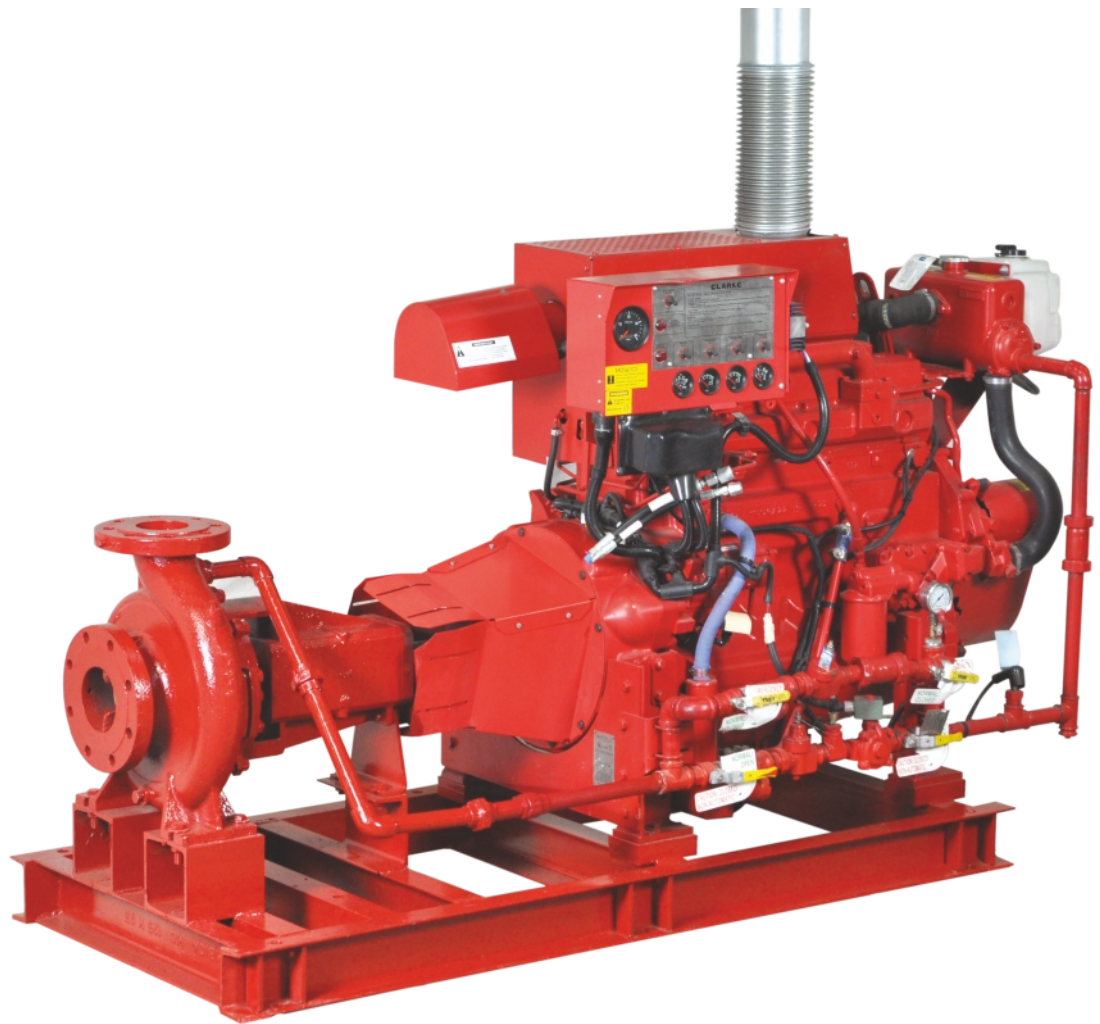
Installations of these pumps would ensure the safety of human life, buildings, and expensive equipments and plants. FGBS fire pumpset shall be used only where a positive suction is provided as specified in NFPA20.

These fire pumps typically consists of the following equipments:

- Single-Stage End-Suction pump
- Electric motor or Diesel Engine
- Cooling system for Diesel Engine
- Fuel system for Diesel Engine
- Battery for Diesel Engine electric start
- Exhaust system for Diesel Engine
- Diesel Engine / Electric Motor Fire pump controller
- Suction and Discharge pressure gauges
- Casing Relief Valve for Motor Fire pump
- Base frame

All above equipments except fuel supply tank and fire pump controller are mounted on a common base frame.

General Pumps can also supply packaged fire pumping system with all required accessories ready for site installation.



## Applications

The FGBS fire pumpsets are used in small capacity, diesel engine or motor driven fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

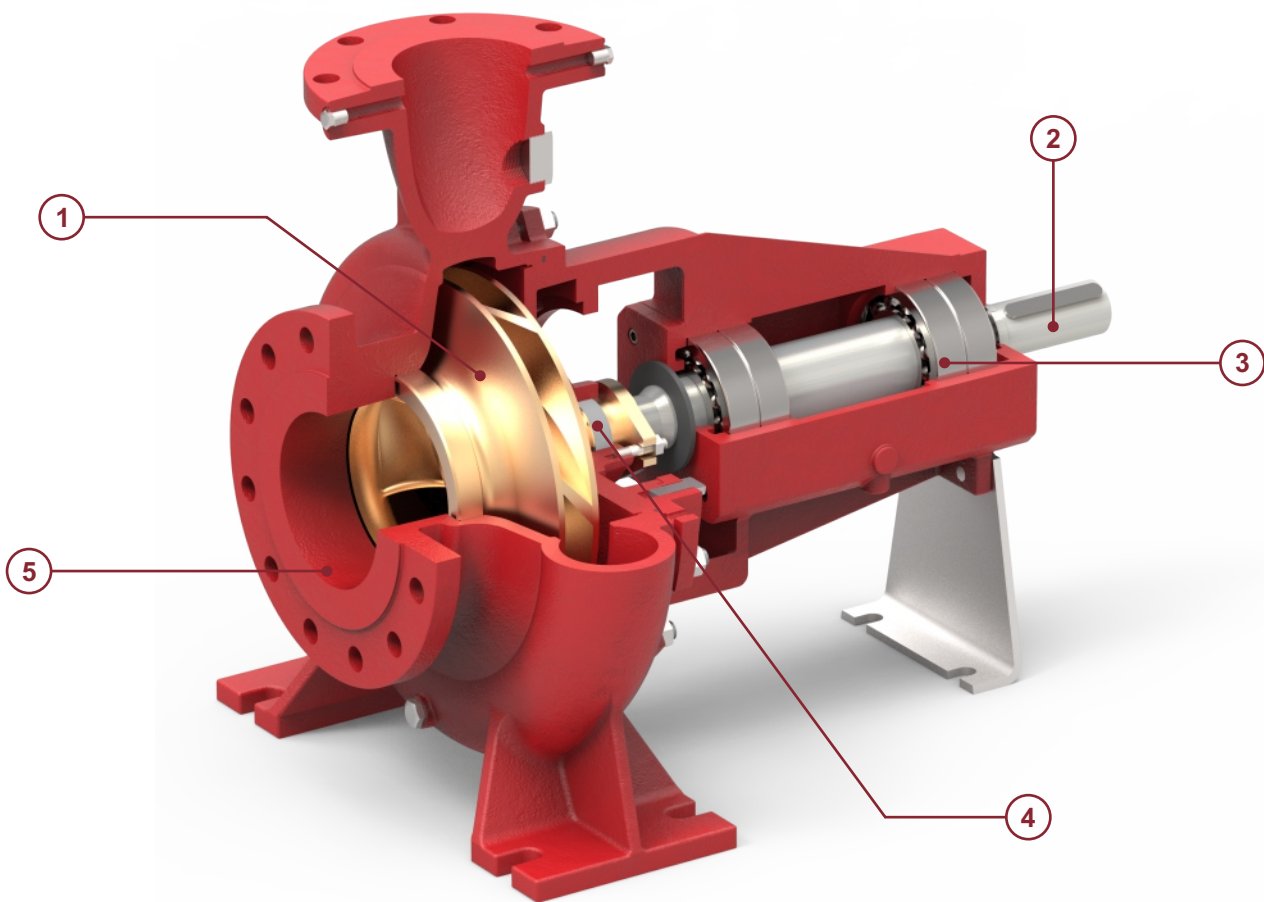
The typical applications are as follow:

- Commercial complexes & high rise buildings
- Petrochemical industries and Gas plants
- Airports and ports
- Jetties
- Marine applications
- Power stations and transformer stations
- Chemical industries
- Manufacturing plants
- Fire-work industries
- Warehouses / godowns

## Features & benefits

FGBS fire pumpset offers all the features & benefits as mentioned in our GBS standard pump series data booklet. Following are the additional features & benefits offered by these pumpsets:

- State-of-the-art design fire pumping system.
- NFPA-20 design
- Compact diesel engine driven pump package
- Rugged construction
- More economical than Horizontal Split Case diesel fire pump packages
- Back pull-out design which simplifies inspection and maintenance without disturbing pipe work
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940-1
- Efficient operation
- Lower initial cost
- Reduced installation time and cost
- Easy access to all working parts
- Ease of maintenance
- Single source unit responsibility.



### 1 - Impeller & Casing

- Impeller is dynamically balanced to grade G6.3 balance quality in accordance to ISO 1940-1.
- Impeller & Casing are designed using state of art CFD tools to ensure optimal performance.

### 2 - Shaft

- Heavy duty stainless steel shaft completely sealed and dry for zero corrosion.
- Short and rigid with negligible vibrations.
- Replaceable shaft protecting sleeves.
- No threads exposed to pump medium, long operating life and no corrosion.
- Adjustment-free assembly.

### 3 - Bearing

- Heavy duty and permanently grease lubricated antifriction bearings for long service life.
- Open gland, enough space for service activities.

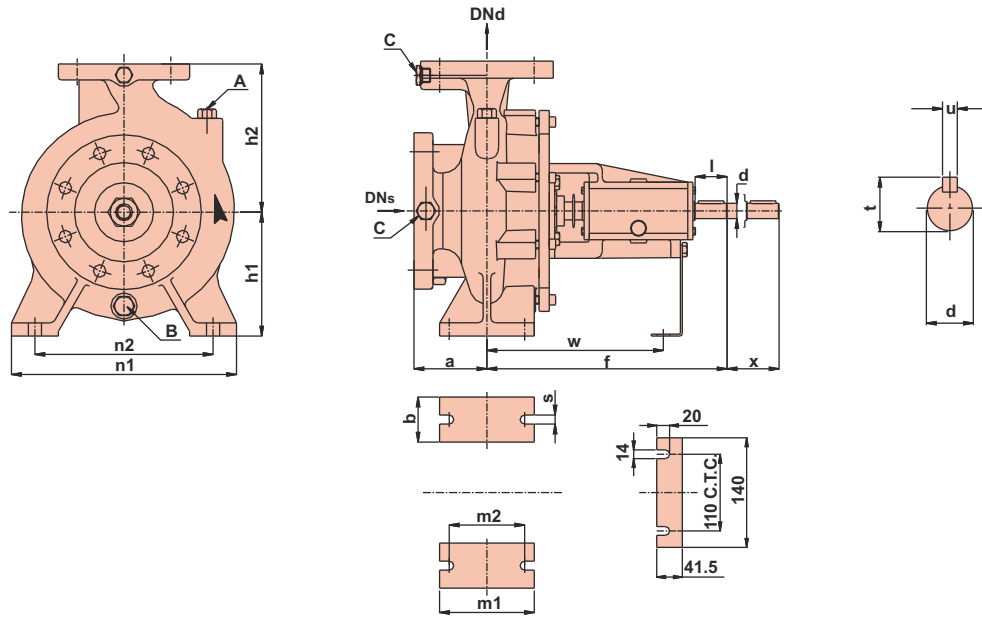
### 4 - Seal

- Asbestos - free, soft packed stuffing boxes.

### 5 - Casing

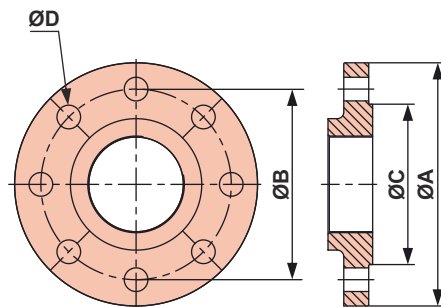
- End Suction backpullout design permits maintenance of the pump without removing the pipes.
- Rugged Ball Bearings on Drive as well as Non Drive end.
- Flange drilled as per ANSI B16.1 class 250.
- Smooth surface inside & CED coated for superior corrosion protection.
- Replaceable wear ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

## Dimensions



Model	DNs	DNd	a	b	d.k6	f	h1	h2	l	m1	m2	n1	n2	s	t	u	w	x	A	B	C
<b>FGBS 65-40-250</b>	65	40	100	65	24	360	180	225	50	125	95	320	250	14	27	8	260	100	Ø3/8"	Ø1/2"	Ø1/4"
<b>FGBS 80-65-250</b>	80	65	100	80	42	482	200	250	80	160	120	360	280	18	45	12	340	140	Ø3/8"	Ø1/2"	Ø1/4"
<b>FGBS 125-100-250</b>	125	100	140	80	42	527	225	280	110	160	120	400	315	18	45	12	360	140	Ø3/8"	Ø1/2"	Ø1/4"
<b>FGBS 125-100-315</b>	125	100	140	80	48	630	250	315	110	160	120	400	315	18	51.5	14	445	140	Ø3/8"	Ø1/2"	Ø1/4"
<b>FGBS 150-125-315</b>	150	125	140	100	48	640	280	355	110	200	150	500	400	22	51.5	14	455	140	Ø3/8"	Ø1/2"	Ø1/4"

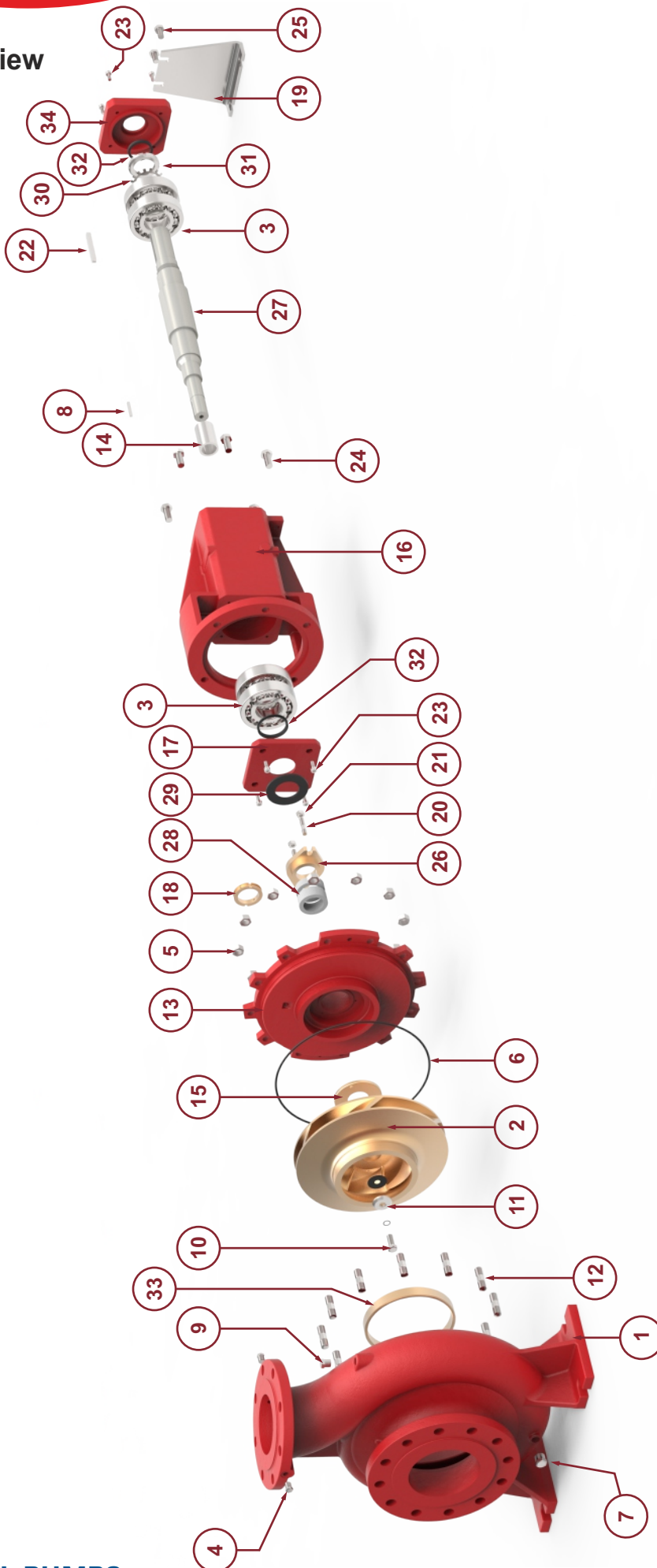
## Flange Dimensions



### ANSI 250 Flange Dimensions

Model	Suction				Discharge			
	ØA	ØB	ØC	ØD x Nos. of holes	ØA	ØB	ØC	ØD x Nos. of holes
<b>FGBS 65-40-250</b>	190	149	125	Ø7/8" x 8	155	114	91	Ø7/8" x 4
<b>FGBS 80-65-250</b>	210	168	144	Ø7/8" x 8	190	149	125	Ø7/8" x 8
<b>FGBS 125-100-250</b>	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
<b>FGBS 125-100-315</b>	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
<b>FGBS 150-125-315</b>	320	270	246	Ø7/8" x 12	280	235	211	Ø7/8" x 8

# Exploded View



Part no.	Part name	Part no.	Part name	Part no.	Part name	Part no.	Part name
1	Casing	11	Impeller Washer	21	Hex Nut	31	Ring Nut
2	Impeller	12	Stud	22	Key	32	V-seal
3	Ball Bearing	13	Back Cover	23	Cap Screw	33	Wear Ring
4	Plug	14	Shaft Sleeve	24	Hex Bolt	34	Bearing Cover (DE)
5	Hex Nut	15	Gland Cover	25	Hex Bolt		
6	'O' Ring	16	Bearing Bracket	26	Gland		
7	Plug	17	Bearing Cover (NDE)	27	Shaft		
8	Key	18	Lintern Ring	28	Graphite Packing		
9	Plug	19	Foot	29	Water Thrower		
10	Hex Bolt	20	Stud	30	Locking Washer		

## Approved Fire Pump Models with Rating

### RATED CAPACITY- 50 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 65-40-250</b>	96-130	6.61-8.96	-	-	2900	2.5	1.5	1
2	<b>FGBS 80-65-250</b>	85-134	5.86-9.23	-	-	2900	3	2.5	1

### RATED CAPACITY- 100 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 65-40-250</b>	95-127	6.55-8.75	-	-	2900	2.5	1.5	1
2	<b>FGBS 80-65-250</b>	84-134	5.79-9.23	-	-	2900	3	2.5	1

### RATED CAPACITY- 150 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 80-65-250</b>	83-135	5.72-9.30	-	-	2900	3	2.5	1

### RATED CAPACITY- 200 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 80-65-250</b>	81-135	5.58-9.90	-	-	2900	3	2.5	1

### RATED CAPACITY- 250 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 80-65-250</b>	78-134	5.37-9.23	-	-	2900	3	2.5	1

### RATED CAPACITY- 300 US GPM

Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 125-100-250</b>	94-132	6.48-9.10	-	-	2900	5	4	1

## Approved Fire Pump Models with Rating

RATED CAPACITY- 400 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	<b>FGBS 125-100-250</b>	93-131	6.41-9.03	-	-	2900	5	4	1
2	<b>FGBS 125-100-315</b>	122-207	8.41-14.27	-	-	2900	5	4	1
3	<b>FGBS 150-125-315</b>	111-192	7.65-13.23	-	-	2900	6	5	1

RATED CAPACITY- 450 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	<b>FGBS 125-100-250</b>	92-131	6.34-9.03	-	-	2900	5	4	1
2	<b>FGBS 125-100-315</b>	121-207	8.34-14.27	-	-	2900	5	4	1
3	<b>FGBS 150-125-315</b>	110-192	7.58-13.23	-	-	2900	6	5	1

RATED CAPACITY- 500 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	<b>FGBS 125-100-250</b>	91-130	6.27-8.96	-	-	2900	5	4	1
2	<b>FGBS 125-100-315</b>	120-207	8.27-14.27	-	-	2900	5	4	1
3	<b>FGBS 150-125-315</b>	110-192	7.58-13.23	-	-	2900	6	5	1

RATED CAPACITY- 750 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	<b>FGBS 125-100-250</b>	86-125	5.92-8.61	-	-	2900	5	4	1
2	<b>FGBS 125-100-315</b>	111-203	7.65-13.99	-	-	2900	5	4	1
3	<b>FGBS 150-125-315</b>	109-190	7.51-13.1	-	-	2900	6	5	1



## Approved Fire Pump Models with Rating

RATED CAPACITY- 1000 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	<b>FGBS 150-125-315</b>	104-188	7.17-12.96	-	-	2900	6	5	1

## Horizontal Split Case Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>450 (1703)</b>	71-131 (4.89-9)	FGHC 125-100-250	5	22.5	GCR 4-8	40 HP	71HP	2HP
			6	22.5	GCR 4-10	50 HP	71HP	3HP
			7	22.5	GCR 4-10	60 HP	71HP	3HP
			8	22.5	GCR 4-12	60 HP	71HP	3HP
			9	22.5	GCR 4-14	75 HP	83HP	4HP
<b>500 (1892)</b>	71-131 (4.89-9)	FGHC 125-100-250	9	25	GCR 4-8	40 HP	71HP	2HP
			6	25	GCR 4-10	50 HP	71HP	3HP
			7	25	GCR 4-12	60 HP	71HP	3HP
			8	25	GCR 4-14	75 HP	83HP	4HP
			9	25	GCR 4-14	75 HP	83HP	4HP
<b>500 (1892)</b>	131-214 (9-14.75)	FGHC 150-125-315	9	25	GCR 4-14	100 HP	115HP	4HP
			10	22.3	GCR 10-10	125 HP	145HP	5.5HP
			11	25	GCR 10-12	125 HP	145HP	5.5HP
			12	25	GCR 10-14	150 HP	175HP	7.5HP
			13	25	GCR 10-14	150 HP	175HP	7.5HP
			14	22.3	GCR 10-14	200 HP	216HP	7.5HP
			14.75	25	GCR 10-16	200 HP	216HP	7.5HP

## Horizontal Split Case Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>750(2838)</b>	65-130 (4.4-8.96)	FGHC 125-100-250	5	37.5	GCR 10-6	50 HP	71HP	3HP
			6	37.5	GCR 10-7	60 HP	71HP	4HP
			7	37.5	GCR 10-8	75 HP	83HP	4HP
			8	37.5	GCR 10-10	100 HP	115HP	5.5HP
			9	37.5	GCR 10-12	100 HP	115HP	5.5HP
<b>750(2838)</b>	129-213 (8.8-14.68)	FGHC 150-125-315	9	37.5	GCR 10-12	125 HP	145HP	5.5HP
			10	37.5	GCR 10-12	125 HP	145HP	5.5HP
			11	37.5	GCR 10-14	150 HP	175HP	7.5HP
			12	37.5	GCR 10-14	200 HP	216HP	7.5HP
			13	37.5	GCR 10-16	200 HP	216HP	7.5HP
			14	37.5	GCR 10-16	200 HP	216HP	7.5HP
			14.68	37.5	GCR 10-18	200 HP	275HP	10 HP
<b>1000(3785)</b>	127-210 (8.75-14.4)	FGHC 150-125-315	9	50	GCR 15-8	150 HP	175HP	10 HP
			10	50	GCR 15-8	150 HP	175HP	10 HP
			11	50	GCR 15-9	200 HP	216HP	10 HP
			12	50	GCR 15-10	200 HP	216HP	15 HP
			13	50	GCR 15-12	200 HP	275HP	15 HP
			14	50	GCR 15-12	250 HP	275HP	15 HP

## Horizontal Split Case Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>1250(4732)</b>	121-205 (8.34-14.13)	FGHC 150-125-315	9	60	GCR 15-8	150 HP	175HP	10 HP
			10	60	GCR 15-9	200 HP	216HP	10 HP
			11	60	GCR 15-9	200 HP	216HP	10 HP
			12	60	GCR 15-10	200 HP	275HP	15 HP
			13	60	GCR 15-12	250 HP	275HP	15 HP

## End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>50(189)</b>	96-130 (6.61- 8.96)	FGBS 65-40-250	6.7	2.50	GCR 1s-15	15HP	15 HP	0.75 HP
			7	2.50	GCR 1s-15	15HP	15 HP	0.75 HP
			8	2.50	GCR 1s-17	15HP	15 HP	0.75 HP
			8.95	2.50	GCR 1s-19	15HP	20 HP	0.75 HP
	85-134 (5.86- 9.23)	FGBS 80-65-250	6	2.50	GCR 1s-13	15HP	15 HP	0.5 HP
			9.2	2.50	GCR 1s-19	20HP	30 HP	0.75 HP
<b>100(378)</b>	95-127 (6.55- 8.75)	FGBS 65-40-250	6.6	5.00	GCR 1-12	15HP	15 HP	1 HP
			7	5.00	GCR 1-13	15HP	20 HP	1 HP
			8	5.00	GCR 1-15	20 HP	20 HP	1 HP
			8.75	5.00	GCR 1-17	20 HP	30 HP	1.5 HP
	84-134 (5.79- 9.23)	FGBS 80-65-250	6	5.00	GCR 1-11	15HP	15 HP	0.75 HP
			9.2	5.00	GCR 1-17	25 HP	30 HP	1.5 HP
<b>150(567)</b>	83-135 (5.12- 9.30)	FGBS 80-65-250	6	7.50	GCR 1-13	15HP	20 HP	1 HP
			7	7.50	GCR 1-15	20 HP	30 HP	1 HP
			8	7.50	GCR 2-11	25 HP	30 HP	1.5 HP
			9	7.50	GCR 2-13	30HP	30 HP	2 HP
			9.3	7.50	GCR 2-13	30HP	57 HP	2 HP

## End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>200 (757)</b>	81-135 (5.58-9.30)	FGBS 80-65-250	5.8	10.00	GCR 3-11	20 HP	20 HP	1.5 HP
			6	10.00	GCR 3-11	20 HP	30 HP	1.5 HP
			7	10.00	GCR 3-13	25 HP	30 HP	1.5 HP
			8	10.00	GCR 3-15	30 HP	30 HP	1.5 HP
			9	10.00	GCR 3-17	30 HP	57 HP	2 HP
			9.3	10.00	GCR 3-17	40 HP	57 HP	2 HP
<b>250(946)</b>	78-134 (5.37-9.23)	FGBS 80-65-250	5.5	12.50	GCR 3-12	20 HP	30 HP	1.5 HP
			6	12.50	GCR 3-13	25 HP	30 HP	1.5 HP
			7	12.50	GCR 3-15	30 HP	30 HP	1.5 HP
			8	12.50	GCR 3-17	30 HP	57 HP	2 HP
			9	12.50	GCR 3-19	40 HP	57 HP	2 HP
<b>300(1135)</b>	94-132 (6.48-9.10)	FGBS 125-100-250	6.65	15.00	GCR 3-17	40 HP	57 HP	2 HP
			7	15.00	GCR 3-17	50 HP	57 HP	2 HP
			8	15.00	GCR 4-10	50 HP	57 HP	3 HP
			9	15.00	GCR 4-12	60 HP	71 HP	3 HP

## End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>400(1514)</b>	93-131 (6.41 - 9.03)	FGBS 125-100-250	6.55	20.00	GCR 4-10	50 HP	57 HP	3 HP
			7	20.00	GCR 4-10	50 HP	57 HP	3 HP
			8	20.00	GCR 4-12	60 HP	71 HP	3 HP
			9	20.00	GCR 4-12	75 HP	71 HP	3 HP
	122-207 (8.41 - 14.27)	FGBS 125-100-315	10	20.00	GCR 4-14	75 HP	83 HP	4 HP
			11	20.00	GCR 4-16	100 HP	115 HP	4 HP
			12	20.00	GCR 4-16	100 HP	115 HP	4 HP
			13	20.00	GCR 4-19	100 HP	115 HP	5.5 HP
			14	20.00	GCR 4-19	100 HP	115 HP	5.5 HP
	<b>450(1703)</b>	92-131 (6.34 - 9.03)	FGBS 125-100-250	6.5	22.50	GCR 4-10	50 HP	57 HP
7				22.50	GCR 4-10	50 HP	57 HP	3 HP
8				22.50	GCR 4-12	60 HP	71 HP	3 HP
9				22.50	GCR 4-14	75 HP	83 HP	4 HP
121-207 (8.34 - 14.27)		FGBS 125-100-315	10	22.50	GCR 4-14	75 HP	83 HP	4 HP
			11	22.50	GCR 4-16	100 HP	115 HP	4 HP
			12	22.50	GCR 4-19	100 HP	115 HP	5.5 HP
			13	22.50	GCR 4-19	100 HP	115 HP	5.5 HP
			14	22.50	GCR 4-22	125 HP	145 HP	5.5 HP

## End Suction Quick Selection guide

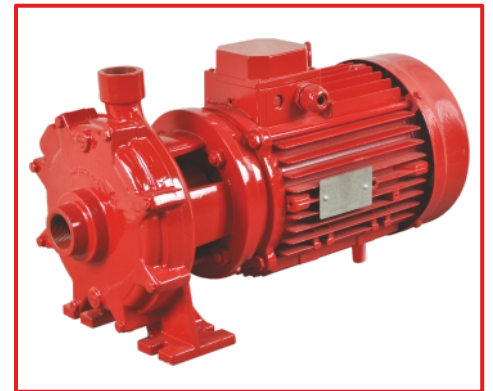
Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>500(1892)</b>	91-130 (6.21 - 8.96)	FGBS 125-100-250	6.5	25.00	GCR 4-10	50 HP	57 HP	3 HP
			7	25.00	GCR 4-12	60 HP	71 HP	3 HP
			8	25.00	GCR 4-14	60 HP	71 HP	4 HP
			8.96	25.00	GCR 4-14	75 HP	83 HP	4 HP
	120-207 (8.27 - 14.27)	FGBS 125-100-315	10	22.00	GCR 10-10	100 HP	115 HP	5.5 HP
			11	25.00	GCR 10-12	100 HP	115 HP	5.5 HP
			12	25.00	GCR 10-14	100 HP	115 HP	7.5 HP
			13	25.00	GCR 10-14	125 HP	145 HP	7.5 HP
			14	22.00	GCR 10-14	125 HP	145 HP	7.5 HP
	<b>750(2838)</b>	86-125 (5.92 - 8.61)	FGBS 125-100-250	6	37.50	GCR 10-7	60 HP	71 HP
7				37.50	GCR 10-8	75 HP	83 HP	4 HP
8				37.50	GCR 10-10	100 HP	115 HP	5.5 HP
8.6				37.50	GCR 10-10	100 HP	115 HP	5.5 HP
114-203 (7.65 - 13.99)		FGBS 125-100-315	9	37.50	GCR 10-12	100 HP	115 HP	5.5 HP
			10	37.50	GCR 10-12	100 HP	115 HP	5.5 HP
			11	37.50	GCR 10-14	125 HP	145 HP	7.5 HP
			12	37.50	GCR 10-14	125 HP	145 HP	7.5 HP
			13	37.50	GCR 10-16	150 HP	175 HP	7.5 HP
			13.99	37.50	GCR 10-16	150 HP	175 HP	7.5 HP



## End Suction Quick Selection guide

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Jockey Flow in USgpm	Jockey Pump Model	Electric Motor HP @ 2900 RPM	Diesel Engine HP @ 3000 RPM	Jockey Pump HP @ 2900 RPM
<b>1000(3785)</b>	104-188 (7.17 - 12.96)	FGBS 150-125-315	7.3	50.00	GCR 15-6	100 HP	115 HP	7.5 HP
			8	50.00	GCR 15-7	125 HP	145 HP	7.5 HP
			9	50.00	GCR 15-8	125 HP	145 HP	10 HP
			10	50.00	GCR 15-8	150 HP	175 HP	10 HP
			11	50.00	GCR 15-9	200 HP	216 HP	10 HP
			12	50.00	GCR 15-10	200 HP	216 HP	15 HP
			12.96	50.00	GCR 15-12	200HP	216 HP	15 HP

# Jockey Pump



## Introduction

Jockey Pump 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.

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 2 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.

## Jockey Pumps Summary Table for Horizontal Split Case Fire Pumps

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Flow in USgpm	Jockey Pump Model	HP	RPM
<b>450 (1703)</b>	71-131 (4.89-9)	FGHC 125-100-250	5	22.5	GCR 4-8	2	2900
			6	22.5	GCR 4-10	3	2900
			7	22.5	GCR 4-10	3	2900
			8	22.5	GCR 4-12	3	2900
			9	22.5	GCR 4-14	4	2900
<b>500 (1893)</b>	71-131 (4.89-9)	FGHC 125-100-250	5	25	GCR 4-8	2	2900
			6	25	GCR 4-10	3	2900
			7	25	GCR 4-12	3	2900
			8	25	GCR 4-14	4	2900
			9	25	GCR 4-14	4	2900
<b>500 (1893)</b>	131-214 (9-14.75)	FGHC 150-125-315	9	25	GCR 4-14	4	2900
			10	22.3	GCR 10-10	5.5	2900
			11	25	GCR 10-12	5.5	2900
			12	25	GCR 10-14	7.5	2900
			13	25	GCR 10-14	7.5	2900
			14	22.3	GCR 10-14	7.5	2900
			14.75	25	GCR 10-16	7.5	2900

## Jockey Pumps Summary Table for Horizontal Split Case Fire Pumps

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Flow in USgpm	Jockey Pump Model	HP	RPM
<b>750(2839)</b>	65-130 (4.4-8.96)	FGHC 125-100-250	5	37.5	GCR 10-6	3	2900
			6	37.5	GCR 10-7	4	2900
			7	37.5	GCR 10-8	4	2900
			8	37.5	GCR 10-10	5.5	2900
			9	37.5	GCR 10-12	5.5	2900
<b>750(2839)</b>	129-213 (8.8-14.68)	FGHC 150-125-315	9	37.5	GCR 10-12	5.5	2900
			10	37.5	GCR 10-12	5.5	2900
			11	37.5	GCR 10-14	7.5	2900
			12	37.5	GCR 10-14	7.5	2900
			13	37.5	GCR 10-16	7.5	2900
			14	37.5	GCR 10-16	7.5	2900
			14.68	37.5	GCR 10-18	10	2900
<b>1000(3785)</b>	127-210 (8.75-14.4)	FGHC 150-125-315	9	50	GCR 15-8	10	2900
			10	50	GCR 15-8	10	2900
			11	50	GCR 15-9	10	2900
			12	50	GCR 15-10	15	2900
			13	50	GCR 15-12	15	2900
			14	50	GCR 15-12	15	2900

## Jockey Pumps Summary Table for Horizontal Split Case Fire Pumps

Rated Capacity in GPM / (LPM)	Pressure in PSI(Bar)	Electric & Diesel Engine Pump Model	Rated Pressure in Bar	Flow in USgpm	Jockey Pump Model	HP	RPM
<b>1250(4732)</b>	121-205 (8.34-14.13)	FGHC 150-125-315	9	60	GCR 15-8	10	2900
			10	60	GCR 15-9	10	2900
			11	60	GCR 15-9	10	2900
			12	60	GCR 15-10	15	2900
			13	60	GCR 15-12	15	2900



**GENERAL PUMPS**

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