FIRE PUMPS











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.



Horizontal Split Case Fire Pumps









General Pumps offers FGHC series state-of-the-art fire pumps with diesel engine or electric motor driven, horizontal • Horizontal Split Case pump. 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 750 USgpm and the head range from 6.4 to 14.65 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.

There fire pumps typically consist of the following equipments:

- · 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.

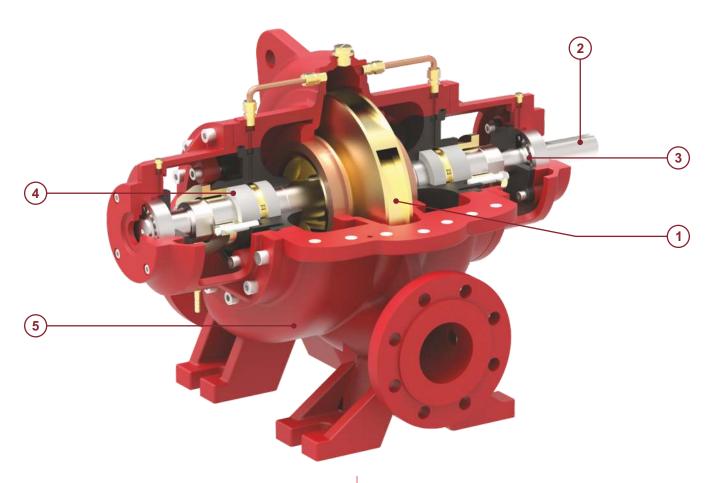
Features & benefits

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

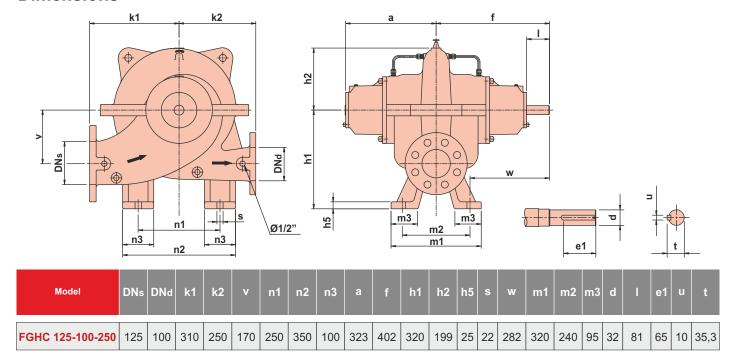
· Asbestos - free, soft packed stuffing boxes.

5 - Casing

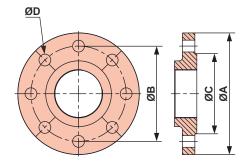
- In-line axially split design which permits removal of the complete Impeller Shaft Assembly without removing the pipes & motor.
- · Short distance between bearings.
- Leak-tight due to compact joint flange with long Pre-stessed bolts.
- Counter-rotation possible with similar parts.
- · Easy mounting self-aligning upper casing.
- Flange drilled as per ASME B16.42 class 300.
- 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



Flange Dimensions

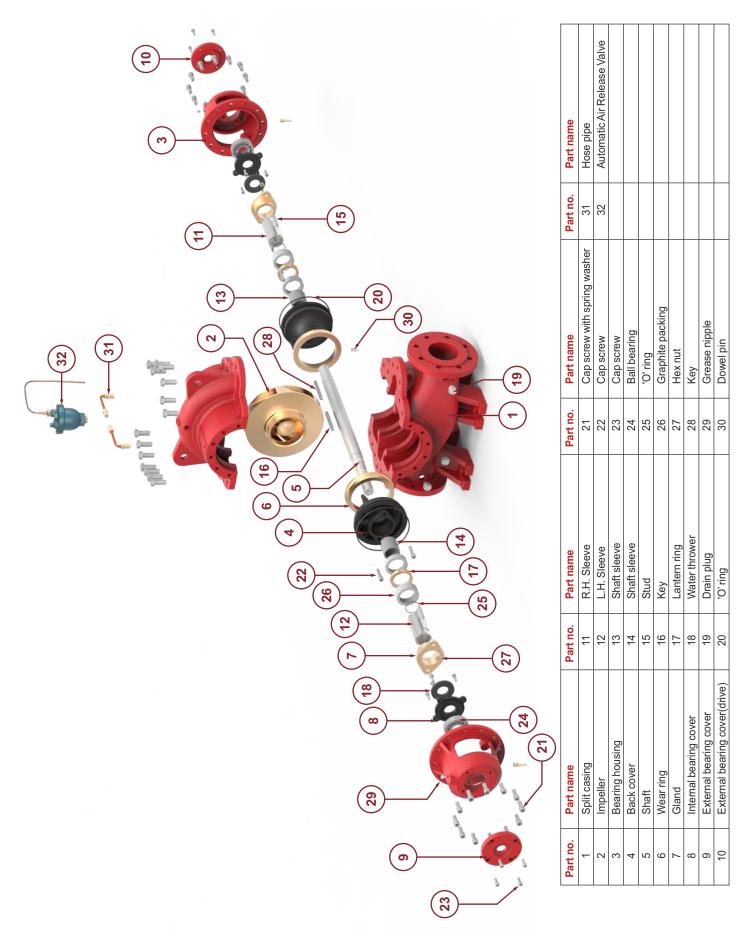


ANSI 250 Flange Dimensions

Model		Suc	tion			Discl	narge	
wodei	ØA	ØВ	ØС	ØD x Nos. of holes	ØA	ØВ	øс	ØD x Nos. of holes
FGHC 125-100-250	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8



Exploded View



Approved Fire Pump Models with Rating

		RAT	ED CAPA	CITY- 45	0 US GP	M			
Sr. No.	Pump Model		isted sure	Pres	proved ssure	Speed	Inlet Dia.	Discharge Outlet Dia.	
		(psi)	(bar)	(psi)	(bar)	(rpm)	(inch)	(inch)	
1	FGHC 125-100-250	101-205	6.9-14.13	100-205	6.89-14.13	3550	5	4	1
2	FGHC 125-100-250	71-131	4.89-9.03	75-136	5.17-9.37	2900	5	4	1
3	FGHC 150-125-400	108-173	7.44-11.92	113-172	7.79-11.8	2100	6	5	1

		RAT	ED CAPA	CITY- 50	00 US GP	M			
Sr. No.	Pump Model		isted sure		proved sure			Discharge Outlet Dia.	
		(psi)	(bar)	(psi)	(bar)	(rpm)	(inch)	(inch)	
1	FGHC 125-100-250	100-205	6.89-14.13	99-205	6.82-14.13	3550	5	4	1
2	FGHC 125-100-250	71-131	4.89-9.03	74-135	5.10-9.30	2900	5	4	1
3	FGHC 150-125-315	131-214	9-14.75	131-214	9.03-14.7	2900	6	5	1

		RAT	ED CAPA	CITY- 75	50 US GP	M			
Sr. No.	Pump Model	UL Li Pres:			proved sure			Discharge Outlet Dia.	
		(psi)	(bar)	(psi)	(bar)	(rpm)	(inch)	(inch)	
1	FGHC 125-100-250	94-204	6.4-14.0	92-204	6.34-14.06	3550	5	4	1
2	FGHC 125-100-250	65-130	4.48-8.96	66-132	4.55-9.10	2900	5	4	1
3	FGHC 150-125-315	129-213	8.89-14.65	129-212	8.89-14.61	2900	6	5	1

Horizontal Split Case Quick Selection guide

Rated Capacity in GPM (LPM)	Pressure in PSI(Bar) for Electric Motor driven Pump	Pump Model for Electric Driven	Pressure in PSI(Bar) for Diesel Engine driven Pump	Pump Model for Diesel Engine Driven	Rated Pressure in Bar	Jockey Pump Flow in USgpm	Jockey Pump Model	Electic Motor HP @ (3550 RPM)	Clarke DIESEL ENGINE HP HP @ (2100 RPM & 3000 RPM)	Jockey Pump HP @ 3450 RPM
				FGHC	7	22.5	GCR 4-8-7	60 HP	60HP-3000 RPM	ЗНР
		(- (L	71-131	100-250	80	22.5	GCR 4-8	75 HP	71HP-3000 RPM	ЗНР
450	101-205	FGHC 100 250	(4.89-9.03)	(5"X4")	o	22.5	GCR 4-9	75 HP	83HP-3000 RPM	5HP
(1703)	(6.96-14.13)	(5"X4")	108-173	FGHC	10	22.5	GCR 4-10	100 HP	105HP-2100 RPM	5HP
			(7 44 11 92)	125-400	1	22.5	GCR 4-11	100 HP	130HP-2100 RPM	5HP
			(76.11-44.7)	(e"X5")	11.92	22.0	GCR 4-11	125 HP	130HP-2100 RPM	5HP
				EGHC.	7	25.0	GCR 4-8-7	60 HP	71HP-3000 RPM	ЗНР
			71-131	100-250	8	25.0	GCR 4-8	75 HP	83HP-3000 RPM	ЗНР
			(4.89-9.03)	(5"X4")	6	25.0	GCR 4-9	100 HP	83HP-3000 RPM	5HP
200	100-205	FGHC			10	25.0	GCR 4-10	100 HP	145HP-3000 RPM	5HP
(1893)	(6.89-14.13)	100-250		FGHC	7	25.0	GCR 4-11	100 HP	145HP-3000 RPM	5HP
		(5"X4")	131-214	125-315	12	25.0	GCR 4-12	125 HP	175HP-3000 RPM	5HP
			(9-14.75)	(e"X5")	13	25.0	GCR 4-13	125 HP	175HP-3000 RPM	5HP
					14	25.0	GCR 4-14	150 HP	216HP-3000 RPM	5HP
				FGHC	6.5	37.5	GCR 5-11	75 HP	62KW (83HP)-3000	5HP
			65-130	100-250	7	37.5	GCR 5-12	75 HP	62KW (83HP)-3000	5HP
			(4.48-8.96)	(5"X4")	8	37.5	GCR 5-14	100 HP	86KW (115HP)-3000	5HP
1	700 70	FGHC			6	37.5	GCR 5-15	100 HP	108KW (145HP)-3000	5HP
(2839)	94-204	100-250			10	37.5	GCR 5-18	125 HP	108KW (145HP)-3000	7.5HP
(2002)	(0.40-14:00)	(5"X4")	129-213	FGHC	7	37.0	GCR 5-18	125 HP	131KW (175HP)-3000	7.5HP
			(8.89-14.65)	125-315	12	37.5	GCR 5-20	150 HP	161KW (216HP)-3000	7.5HP
			,	(cv o)	13	37.5	GCR 5-22	150 HP	161KW (216HP)-3000	7.5HP
					14	37.5	GCR 5-24	200 HP	161KW (216HP)-3000	7.5HP







GENERAL PUMPS, S.L.

Pol. Ind. El Oliveral (U.E.7, Nave n°1) - Calle W 46394 Ribarroja del Turia - Valencia Spain Tel.: +34 96 1665200 / Fax:+34 96 1665052 E-mail: info@pumpsgp.com • www.pumpsgp.com