



HALLIBURTON



Electric Submersible Pumps, Motors and Protectors

Downhole systems

Our ESPs are engineered, manufactured and tested to give you long service life, and we back up our promise with a 1-year service and parts warranty (optional 2-year warranties are available in most areas). Accessories are available to increase resistance to abrasion or corrosion, and extra high-torque shafts are available for all models. For the centrifugal ESPs, the number of stages determines the total amount of lift provided and motor horsepower required, so you can customize your pump to deliver the most effective performance at the least initial price and operating cost.

We offer optional instrumentation on all our electrical downhole pumps to remotely monitor and transmit well and pump performance data to the surface control box, and/or to a Web client, if desired, so equipment operation can be maintained at peak efficiency and well performance can be optimized. Instrumented pumps are proven to experience enhanced run life. Pump data are multiplexed onto the power cable so no special cabling or wiring is required. A ruggedized Modbus RTU unit connects directly to the surface control box to pick the data off the power cable at the surface and route it to a local surface read-out unit and/or directly to the web.

Optional accessories are available to assist in gas handling and exclusion of fine-grained solids. Automatic shutdown sensors can save pump or motor damage from unexpected well conditions. All electrical systems can be equipped with optional variable-speed drives to fine-tune performance and maximize run life. Drives can be remotely controlled, if desired, to provide real-time control and production optimization options.

Electrical Submersible Pump Specifications

Series	Pump	OD (in.)	Min. Casing Size (in.)	60-Hz Min. Flow (BFPD)	60-Hz Max. Flow (BFPD)
G3	GP3-400	3.38	4 1/2	226	500
	GP3-550			400	660
	GP3-900			700	980
	GP3-1200			800	1,580
	GP3-1500			1,000	1,880
	GP3-2500			1,800	3,100
G4	GP4-150	4.00	5 1/2	75	279
	GP4-300			204	442
	GP4-450			216	555
	GP4-650			415	867
	GP4-850			640	1,200
	GP4-1250			800	1,700
	GP4-1750			1,200	2,100
	GP4-3000			2,040	3,660
	GP4-4300			3,000	5,400
	GP4-6000			3,500	7,500
G513	GP513-1600	5.13	6 5/8	1,200	2,000
	GP513-2000			1,600	2,700
	GP513-2500			1,860	3,000
	GP513-3100			2,100	3,500
	GP513-4000			3,180	5,000
	GP513-5200			4,450	6,420
	GP513-5600			4,080	7,200
	GP513-7000			5,080	9,100
G5	GP5-1500	5.38	7	1,132	2,264
	GP5-2600			1,735	3,100
	GP5-3600			2,400	4,700
	GP5-5500			3,470	7,169
	GP5-7000			4,000	9,600
	GP5-8500			6,414	10,565
G6	GP6-7500	6.75	8 5/8	5,000	11,000
	GP6-10000			6,500	11,500
	GP6-12000			9,000	16,500
	GP6-16000			12,000	18,000
	GP6-21000			18,000	21,000
G8	GP8-19000	8.63	10 3/4	12,000	24,000
	GP8-24000			14,000	32,000
G9	GP9-35000A	9.50	11 3/4	31,000	45,000
	GP9-35000B			28,000	43,000
	GP9-35000C			25,500	39,000

Value delivered, guaranteed!

Motors

Our three-phase induction motors are hand-wound and are designed to operate at a midpoint of 3,500 rpm at 60 Hz. A wide variety of motors is available with different horsepower and voltage ratings to customize the system to your specific needs. Motor speed can be optimized for peak performance and economical power consumption using the optional variable speed drive at the surface simply by adjusting the power frequency up or down. Speed control can also add to run life.

All Global downhole and surface pump systems and components are installed, serviced and maintained by GlobalServ experienced field crews.

Motor Specifications

Series	Motor	OD (in.)	60-Hz		
			HP	Volts	Amps
G3	GM3	3.75	7.5	410	14
			10.5	390	20.5
			15.0	315	35.5
				400	28
			19.5	387	38
				630	23
			22.5	330	51.5
				440	38.5
				730	23
			25.5	370	51
				500	37
				630	30
G4	GM4	4.56	10	435	16
			15	435	23
				610	26
			20	450	28.5
				750	17
			25	410	39
				690	22
				810	20
			30	425	44.5
				750	25.5
			35	400	55
				675	33
				750	28
			40	420	62
				770	33
				880	29
				1,295	20
			50	675	47
	815	39			
	955	33			
	1,070	31			
	1,210	27			

Series	Motor	OD (in.)	60-Hz		
			HP	Volts	Amps
G4	GM4	4.56	60	640	59
				745	52
				810	47
				970	39
				1,330	29
			70	540	82.5
				750	60
				945	47
				1,135	39
			80	635	80
				860	60
				1,085	46
				1,310	39
			90	710	81
				960	59
				1,135	50
				1,220	46
				1,460	39
				1,930	31
			100	775	84
				1,075	59
	1,355	46			
	2,205	28.5			
110	1,190	60			
	2,380	30			
120	930	84			
	1,040	76			
	1,125	70			
	1,295	59			
	2,245	35			
G513	GM540	5.40	20	440	29
				755	17
			30	435	45
				710	28
				1,215	16
			40	435	60
				730	36
				880	30
				1,325	20
			50	450	72
				725	45
				905	35
				1,375	22
			60	425	91
				645	59
	870	45			
	970	40			
	1,085	35			
	1,320	30			

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Series	Motor	OD (in.)	60-Hz		
			HP	Volts	Amps
G513	GM540	5.40	70	755	60
				1,015	45
				1,265	35
			80	865	60
				1,160	45
			100	705	90
				835	76
				1,070	60
				1,255	50
				2,170	29
			120	855	88
				1,030	73
				1,295	59
				2,165	33
			130	9,25	88
				1,125	67
			140	985	90
				1,245	71
				2,015	44
			150	1,075	87
				1,240	76
				2,105	44
			160	825	122
				1,115	88.5
	2,185	46			
180	945	120			
	1,275	89			
	1,945	59			
	2,260	50			
200	1,100	115			
	2,140	54			
225	1,135	127			
	2,235	64			
G5	GM5	5.63	60	495	73.5
				850	43
				1,205	30
			90	850	64
				1,170	46.5
				1,275	43
				1,380	39.5
				1,490	36.5
				2,125	25.5
			120	850	85.5
				990	73.5
				1,275	57
				1,415	51.5
				2,550	28.5
				4,160	17

Series	Motor	OD (in.)	60-Hz		
			HP	Volts	Amps
G5	GM5	5.63	150	885	102.5
				1,240	73.5
				1,415	64
				2,305	39.5
				2,655	34
				3,190	28.5
				4,160	21.5
			180	1,275	85.5
				2,550	43
				3,190	34
			210	1,033	102.5
				2,075	51.5
				3,100	34
			240	1,415	102.5
				2,550	57
				4,250	34
			270	1,275	128.5
				1,595	102.5
				2,550	64
			300	1,235	147.5
				1,415	128.5
				2,091	86.5
				2,480	73.5
				4,250	43
			330	1,560	128.5
				1,950	102.5
				2,725	73.5
				3,505	57
				3,895	51.5
				1,360	147.5
360	1,700	128.5			
	2,125	102.5			
	2,550	85.5			
	3,400	64			
	4,250	51.5			
390	1,840	128.5			
	2,080	114			
	2,300	102.5			
	2,765	85.5			
	3,685	64			
420	2,480	102.5			
	2,975	85.5			
	3,470	73.5			
	3,965	64			
450	1,860	147			
	2,125	128			
	2,655	102.5			
	3,720	73.5			
	4,250	64			

Protectors

Oil-filled protectors act as a reservoir for dielectric motor oil, and keep motors running smoothly and efficiently under varying conditions of temperature and pressure. The oil helps conduct heat away from the motor to the outer housing where it is cooled by well fluid circulating by it. Protectors act as a pressure compensator to absorb thermal expansion during installation and operation. By equalizing internal and external pressures, they prevent contaminants from entering the motor. Protectors contain a thrust bearing that accepts the load of the fluid column upon startup and absorbs the axial load of the pump.

Protector Specifications

Series	Protector
G3	GPR3 Labyrinth
	GPR3 PFSB
	GPR3 Labyrinth, HL
	GPR3 PFSB, HL
G4	GPR4 Labyrinth
	GPR4 PFSB
	GPR4 PFSB HL
	GPR4 PFDB
	GPR4 PFDB HL
	GPR4 BPB
	GPR4 BSB
	GPR-4 BSL
	GPR4 LSB
	GPR4 LSL
	GPR4 BPBSL
	GPR4 LSBPB
	GPR4 LSLSL
	GPR4 BPB HL
	GPR4 BSB HL
	GPR4 BSL HL
	GPR4 LSB HL
	GPR4 LSL HL
	GPR4 BPBSL HL
	GPR4 LSBPB HL
GPR4 LSLSL HL	

Series	Protector
G5	GPR5 Labyrinth
	GPR5 PFSB
	GPR5 PFSB HL
	GPR5 PFDB
	GPR5 PFDB HL
	GPR5 BPB
	GPR5 BSB
	GPR5 BSL
	GPR5 LSB
	GPR5 LSL
	GPR5 BPBSL
	GPR5 LSBPB
	GPR5 LSLSL
	GPR5 BPB HL
	GPR5 BSB HL
	GPR5 BSL HL
	GPR5 LSB HL
	GPR5 LSL HL
	GPR5 BPBSL HL
	GPR5 LSBPB HL
GPR5 LSLSL HL	

Protector Nomenclature

Abbreviation	Protector
L	Labyrinth
PF	Pre-filled
SB	Single Bag
DB	Double Bag
BPB	Modular Bag – Parallel – Bag
BSB	Modular Bag – Series – Bag
BSL	Modular Bag – Series – Labyrinth
LSB	Modular Labyrinth – Series – Bag

Abbreviation	Protector
LSL	Modular Labyrinth – Series – Labyrinth
BPBSL	Modular Bag – Parallel – Bag – Series – Labyrinth
LSBPB	Modular Labyrinth – Series – Bag – Parallel – Bag
LSLSL	Modular Labyrinth – Series – Labyrinth – Series – Labyrinth
HL	High-load thrust bearing
HSS	High-strength shaft

Global Artificial Lift provides high-quality downhole and surface pump systems that are backed by guaranteed delivery. You can choose our ESPnow! or ESPstandard service depending on your needs, and in many areas you can choose an extended warranty.