

## WILLIAMS<sup>®</sup>

### HAND PUMPS

- 5HS2S35, 5HS2S100 and 5HS2S200 feature 2 speed operation
- Pressure relief valve for overload protection
- Load release valve for single acting cylinder usage
- Large oil capacities to power a wide range of cylinders and tools
- 5HS2S35 and 5HS2S100 are constructed of high strength lightweight aluminum alloy for easy handling and corrosion resistance
- All hand pumps function in horizontal positions and will also function in some vertical positions
- Maximum working pressure: 10,000 psi / 700 bar

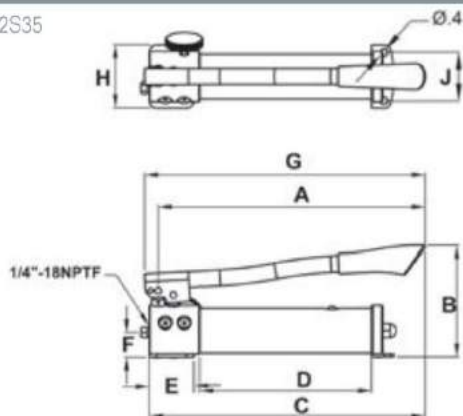


5HS1S60

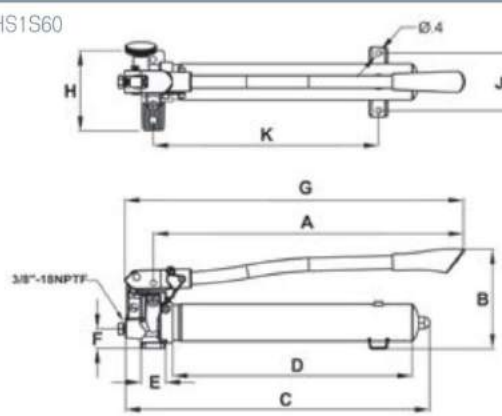


5HS2S35

5HS2S35



5HS1S60



### HAND PUMP SPECIFICATIONS

Used with Cylinder	Pump Type	Usable Oil Capacity	Product Code	Pressure Rating		Oil Displacement per Stroke		Max. Operating Force	Piston Stroke	Oil Outlet Port
		(psi)		(in³)						
		(in³)		1st Stage	2nd Stage	1st Stage	2nd Stage	(lbs)	(in)	
Single Acting	Single-speed	36.5	5HS1S60		10,000		0.15	109	0.79	3/8"-18NPTF
		67.0	5HS1S120				0.13	89	0.82	3/8"-18NPTF
	Two-speed	21.4	5HS2S35	200		0.18	0.05	88	0.38	¼"-18NPTF
		61.0	5HS2S100			0.81	0.14	132	0.82	3/8"-18NPTF
		128.0	5HS2S200							

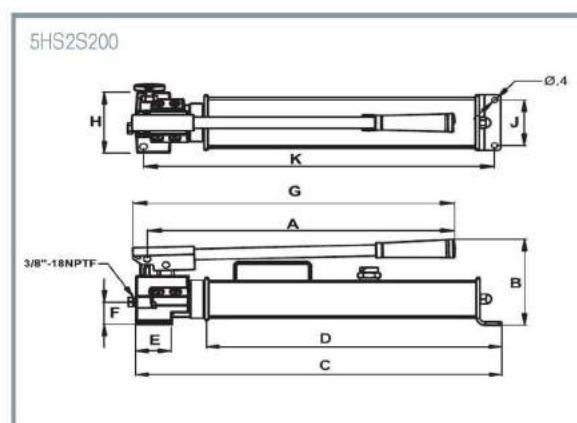
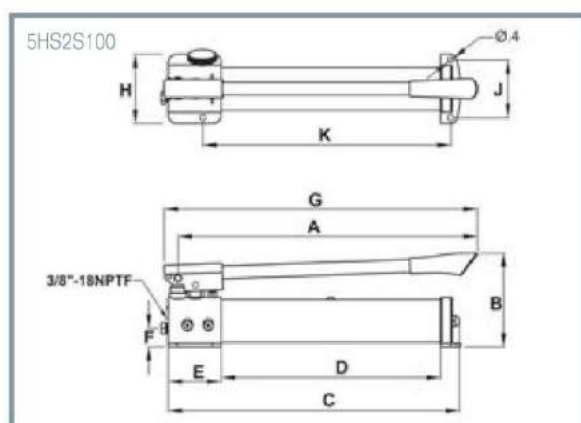
**WILLIAMS®**  
**HAND PUMPS**



5HS2S100



5HS2S200



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HYDRAULICS

HAND PUMPS

**HAND PUMP DIMENSIONS**

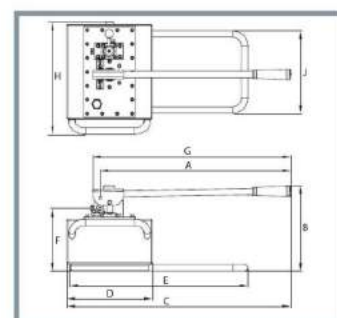
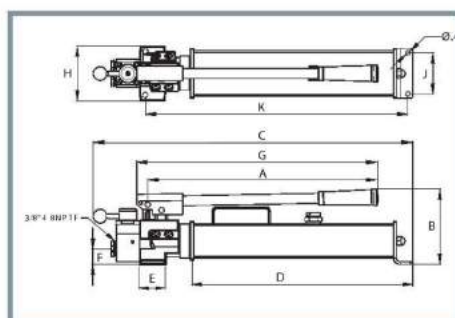
Product Code	Dimensions (in)									
	A	B	C	D	E	F	G	H	J	K
5HS1S60	18.94	6.46	19.53	15.35	1.57	1.26	20.79	5.20	3.74	14.45
5HS1S120	20.50	6.50	21.75	17.50	2.13	1.75	22.63	5.25	3.74	21.25
5HS2S35	13.43	5.91	13.89	9.09	2.36	1.34	14.13	3.35	2.56	-
5HS2S100	19.69	6.38	19.88	14.96	3.62	1.26	20.63	4.72	3.94	16.93
5HS2S200	19.75	6.64	23.69	18.37	2.36	1.73	20.71	4.72	3.54	22.56

**WILLIAMS**

## DOUBLE ACTING HAND PUMPS

- A 4-way control valve for operation of double acting cylinders
- Large oil capacities to power a wide range of cylinders and tools
- Two speed operation increases productivity and reduces user fatigue

5HD2S500



## DOUBLE ACTING HAND PUMP SPECIFICATIONS

Used with Cylinder	Pump Type	Usable Oil Capacity	Product Code	Pressure Rating		Oil Displacement per Stroke		Max. Operating Force (lbs)	Piston Stroke (in)	Oil Outlet Port	Weight (lbs)
				1st Stage (psi)	2nd Stage (psi)	1st Stage (in <sup>3</sup> )	2nd Stage (in <sup>3</sup> )				
Double Acting	Two Speed	128.0	5HD2S100	200	10,000	0.81	0.14	132	0.82	3/8"-18NPTF	32.2
		476.0	5HD2S500	290		7.31	0.29	143	1.67		77.4

## DOUBLE ACTING HAND PUMP DIMENSIONS

Product Code	Dimensions (in)									
	A	B	C	D	E	F	G	H	J	K
5HD2S100	19.75	6.64	23.69	18.37	2.36	1.73	20.71	4.72	3.54	22.56
5HD2S500	25.79	11.61	30.35	11.54	24.17	8.25	26.94	15.24	11.18	-

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DOUBLE ACTING HAND PUMPS





## AIR PUMPS

- High strength reinforced aluminum alloy reservoir is lightweight and corrosion resistant
- Pressure relief valve for overload protection
- Suggested air pressure range: 90-175 psi / 6-12 bar
- Designed to be used with single acting cylinders
- Dust cover protection for the release control valve
- Dual stage release control valve
- 5AS200 offers a turbo function that features high flow at high pressure condition
- 5AD150M offers a 4-way control valve for operation of double acting cylinders
- Maximum working pressure: 10,000 psi / 700 bar



5AD150M



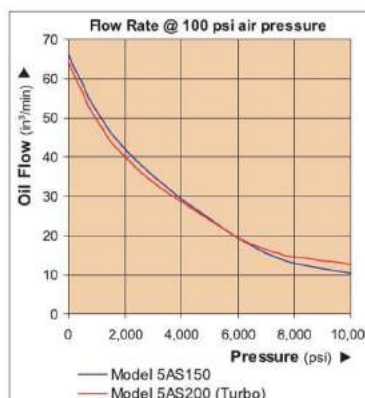
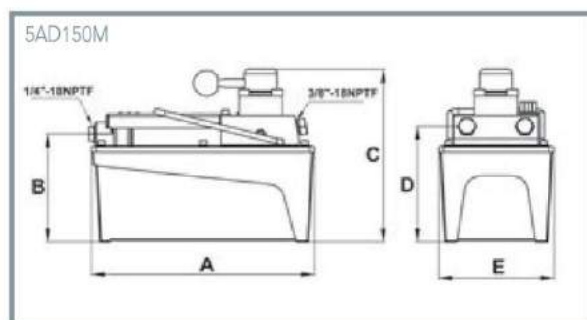
5AS150L



5AS200

## AIR PUMP SPECIFICATIONS

Used with Cylinder	Usable Oil Capacity (in <sup>3</sup> )	Product Code	Pressure Rating (psi)	Oil Output Flow Rate (in <sup>3</sup> /min)		Input Air Pressure Range (psi)	Dimensions (in)				
				No Load	Load		A	B	C	D	E
Single Acting	36.6	5AS60	10,000	61	9	100-200	16.54	9.84	7.01	6.18	5.59
	91.5	5AS150		66	11		10.35	5.00	7.28	5.16	5.35
	122.1	5AS200		65	12		11.57	6.02	7.91	6.18	5.98
	231.9	5AS380		65	11		12.64	5.08	7.36	5.24	7.36
	91.5	5AS150L		61	10		10.98	6.30	8.03	5.12	5.35
	231.9	5AS380L		61	10		12.64	6.42	8.15	5.20	7.36
Double Acting	91.5	5AD150M	10,000	66	11	100-200	10.35	5.00	7.99	5.35	5.35





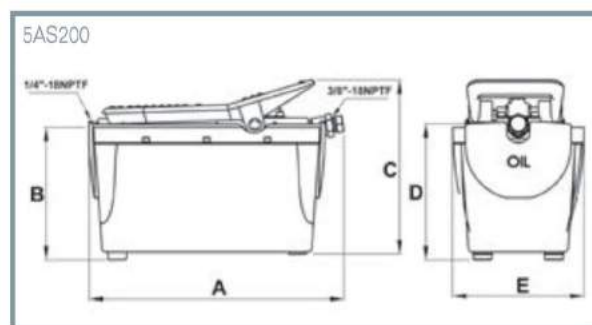
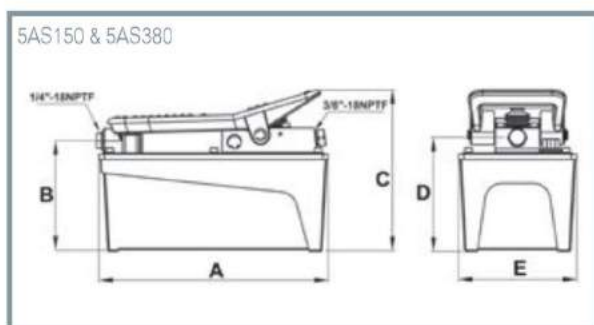
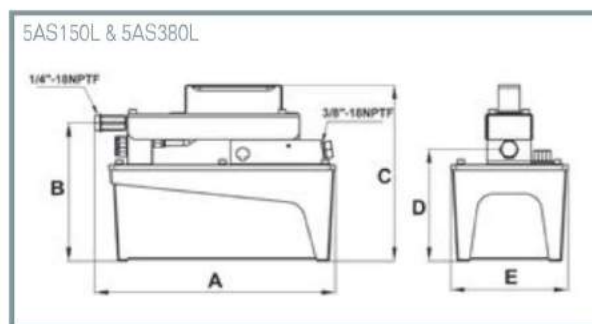
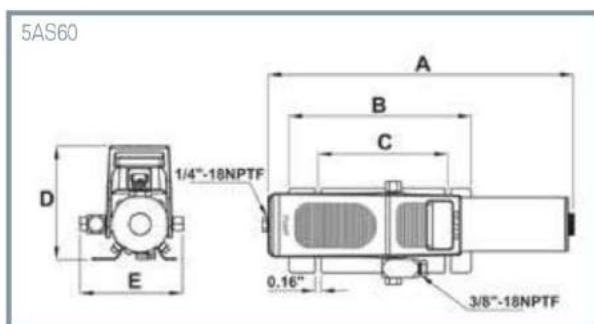
5AS60



5AS150



5AS380L



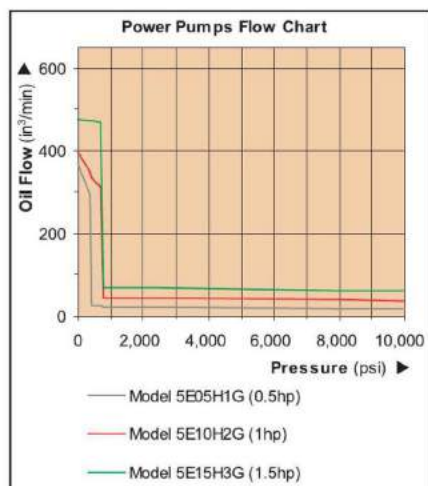
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AIR PUMPS

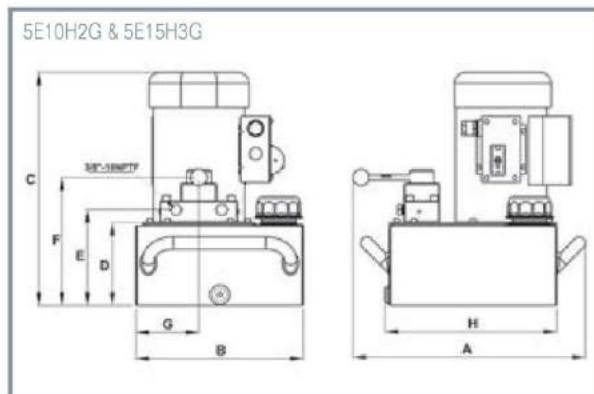
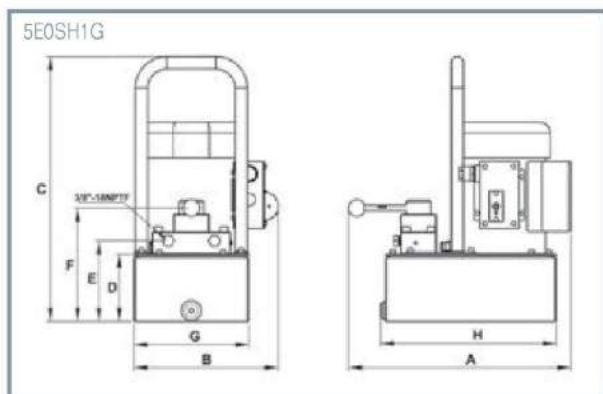
**WILLIAMS**

## ELECTRIC PUMPS

- Quiet operation meets OSHA regulations (80dBA)
- 2 speed operation allows for faster cylinder advance
- Full load starting capacities
- Internal filter keeps contamination from damaging pump
- Rugged durable design meets the demands of industrial applications
- Precision components to minimize wear and improve overall dependability
- Designed to minimize the number of moving parts and maximize overall pump efficiency
- Ideal for on site construction as well as maintenance



5E10H2GR







5E05H1G



5E10H2G

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HYDRAULICS

ELECTRIC PUMPS

## ELECTRIC PUMP DIMENSIONS

Product Code	Dimensions (in)							
	A	B	C	D	E	F	G	H
5E05H1G	15.43	10.28	19.09	4.72	5.67	7.99	8.07	12.36
5E10H2G	16.65	12.01	17.83	5.94	6.89	9.21	4.53	12.36
5E15H3G	16.65	12.01	19.72	7.24	8.19	10.51	4.53	12.36

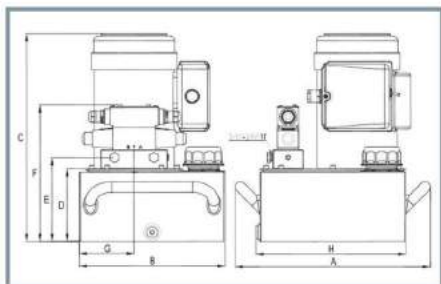
## ELECTRIC PUMP SPECIFICATIONS

Motor Size	Usable Oil Capacity	Product Code	Product Code with Remote Control Pendant Switch	Max. Output Pressure	Oil Output Flow Rate		Valve Type	Valve Function	Current Draw	Motor Voltage	Sound Level
					1st Stage	2nd Stage					
(hp)	(gal)			(psi)	(in <sup>3</sup> )				(amps)	(volts)	(dBA)
0.5	1.0	5E05H1G	5E05H1GR	10,000	293	18	4-way, 3-pos.	Advance Hold Return	8	115	80
1.0	2.0	5E10H2G	5E10H2GR		311	37			15		
1.5	3.0	5E15H3G	5E15H3GR		470	61			17		



## ELECTRIC PUMPS WITH SOLENOID VALVE

- Quiet operation meets OSHA regulations (80dBA)
- Ideal for applications where a remote control is required
- 2 speed operations allows for faster cylinder advance
- Full load starting capabilities
- Internal filter keeps contamination from damaging pump
- 10 foot hand held remote controls the solenoid valve



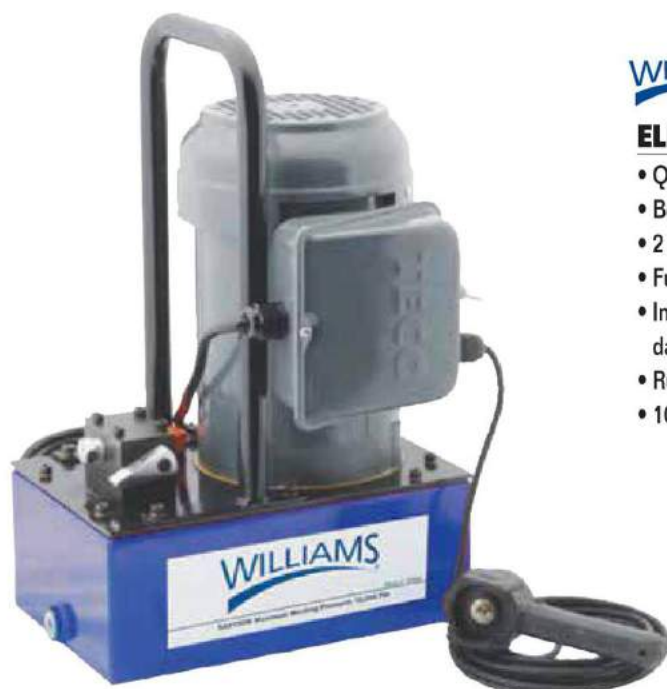
## ELECTRIC PUMP WITH SOLENOID VALVE SPECIFICATIONS

Used with Cylinder	Motor Size	Usable Oil Capacity	Product Code	Pressure Rating		Oil Output Flow Rate		Valve Type	Valve Function	Current Draw	Motor Voltage	Weight
	(hp)	(gal)		1st Stage (psi)	2nd Stage (psi)	1st Stage (in³/min)	2nd Stage (in³/min)			(amps)	(volts)	(lbs)
Single Acting	0.5	1	5ES05H1G	350	10,000	293	18	3-way, 3-position	Advance/ Hold/ Return	9	115	61.5
		2	5ES05H2G							12		65.3
	1	2	5ES10H2G	700		311	37			17		72.6
	1.5	3	5ES15H3G			470	61			17		90.4
		5	5ES15H5G			470	61			17		98
Double Acting	0.5	1	5ES05H1GR	350		293	18	4-way, 3-position		9		61.5
		2	5ES05H2GR							12		65.3
	1	2	5ES10H2GR	700		311	37			12		72.6
	1.5	3	5ES15H3GR			470	61			17		72.6
		5	5ES15H5GR			470	61			17		98

## ELECTRIC PUMP WITH SOLENOID VALVE DIMENSIONS

Product Code	Dimensions (in)							
	A	B	C	D	E	F	G	H
5ES05H1G	12.74	10.26	19.10	4.72	5.65	10.00	8.07	12.32
5ES05H2G	12.74	10.26	19.10	4.72	5.65	10.00	8.07	12.32
5ES10H2G	17.88	12.01	17.88	5.98	6.90	11.26	4.51	12.32
5ES15H3G	17.88	12.01	17.88	5.98	6.90	11.26	4.51	12.32
5ES15H5G	16.10	12.01	17.13	5.98	6.90	11.26	4.51	12.32
5ES05H1GR	16.10	12.01	17.13	5.98	6.90	11.26	4.51	12.32
5ES05H2GR	16.10	12.01	19.78	7.28	8.20	12.56	4.51	12.32
5ES10H2GR	16.10	12.01	19.78	7.28	8.20	12.56	4.51	12.32
5ES15H3GR	16.10	12.01	24.78	12.28	13.20	17.56	4.51	12.32
5ES15H5GR	16.10	12.01	24.78	12.28	13.20	17.56	4.51	12.32



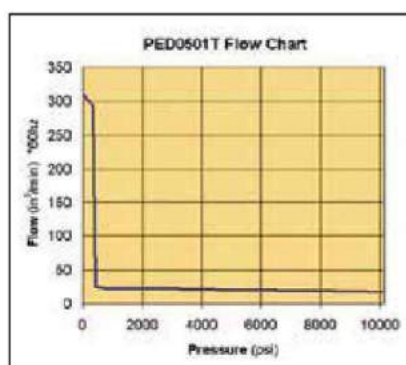
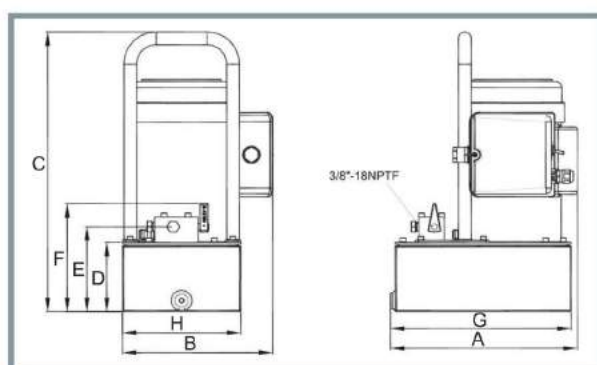


5EA05HIG

**WILLIAMS**

## ELECTRIC PUMP WITH AUTO RETURN VALVE

- Quiet operation meets OSHA regulations (80dBA)
- Best suited for punching, crimping and cutting applications
- 2 speed operation allows for faster cylinder advance
- Full load starting capabilities
- Internal filter keeps contamination from damaging pump
- Rugged durable design meets the demands of industrial applications
- 10 ft. remote pendant switch to control motor on/off



## ELECTRIC PUMP WITH AUTO RETURN VALVE SPECIFICATIONS

Motor Size (hp)	Usable Oil Capacity (gal)	Product Code	Pressure Rating		Oil Output Flow Rate		Valve Type	Valve Function	Current Draw (amps)	Motor Voltage (volts)	Sound Level (dBA)	Weight (lbs)
			1st Stage (psi)	2nd Stage (psi)	1st Stage (in³/min)	2nd Stage (in³/min)						
0.5	1.0	5EA05HIG	350	10,000	233	18	2-way, 2-position	*Advance/ Return	9	115	80	66.2

\* Holds pressure in advance position when motor is off.

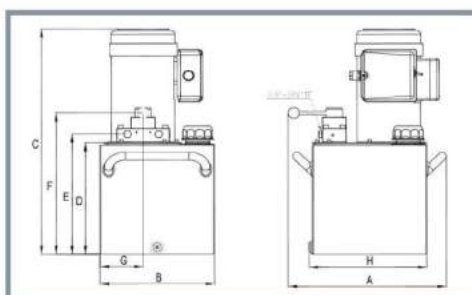
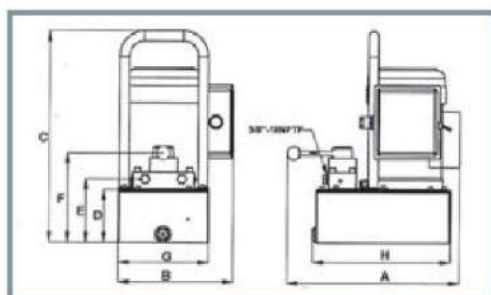
## ELECTRIC PUMP WITH AUTO RETURN VALVE DIMENSIONS

Product Code	Dimensions (in)						
	A	B	C	D	E	F	G
5EA05HIG	12.76	10.28	19.09	4.72	5.79	7.36	12.36



## ELECTRIC PUMPS WITH PENDANT SWITCH

- Quiet operation meets OSHA regulations (80dBA)
- 2 speed operation allows for faster cylinder advance
- Full load starting capacities
- Internal filter keeps contamination from damaging pump
- 10 foot hand held remote control allows user to control cylinder in up or down position



## ELECTRIC PUMP WITH SOLENOID VALVE SPECIFICATIONS

Used with Cylinder	Motor Size	Usable Oil Capacity	Product Code	Pressure Rating		Oil Output Flow Rate		Valve Type	Valve Function	Current Draw	Motor Voltage	Weight	
	(hp)	(gal)		1st Stage (psi)	2nd Stage (psi)	1st Stage (in³/min)	2nd Stage (in³/min)			(amps)	(volts)	(lbs)	
Single Acting	0.5	1.0	5E05H1GR	350	10,000	293	18	3-way, 3-position	Advance/ Hold/ Return	9	115	59.5	
	1.0	2.0	5E10H2GR	700		397	37			12		70.5	
	1.5	3.0	5E15H3GR			476	61			17		88.5	

## ELECTRIC PUMP WITH SOLENOID VALVE DIMENSIONS

Product Code	Dimensions (in)							
	A	B	C	D	E	F	G	H
5E05H1GR	14.92	10.28	19.10	4.72	5.67	7.99	8.07	12.36
5E10H2GR	16.65	12.01	17.83	5.94	6.89	9.21	4.53	12.36
5E15H3GR	16.65	12.01	19.72	7.24	8.19	10.51	4.53	12.36



5G65H5G



5D73H10G



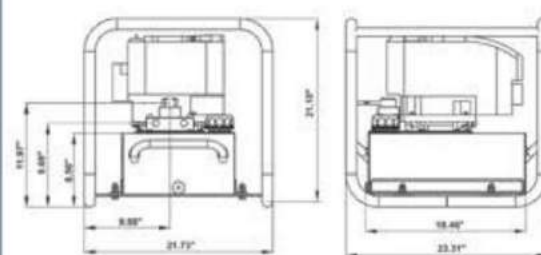
5G102H5G



## GAS ENGINE PUMP

- Gas pump will provide 10,000 psi hydraulic force at remote locations
- Industrial grade 5.5 hp Honda gas engine
- Manual control valve for use with single or double acting cylinders or tools
- Two speed pump designed for rapid cylinder advance
- Gas pump features a sturdy protective roll cage for use in the toughest environments

5G65H5G



## DIESEL ENGINE PUMP


- Diesel engine pumps will provide 10,000 psi at remote locations
- Industrial grade 5.5 hp Honda gas engine
- Locking solenoid control valve for use with single or double acting cylinders or tools
- Two speed pump designed for rapid cylinder advance
- Ideal for application when diesel fuel in remote environments is required
- Comes standard with electric start.

## ENGINE PUMP SPECIFICATIONS

Motor Size (hp)	Usable Oil Capacity (gal)	Product Code	Pressure Rating (psi)		Oil Output Flow Rate (in <sup>3</sup> )		Valve Type	Valve Function	Rotation Speed (rpm)	Sound Level (dBA)
			1st Stage	2nd Stage	1st Stage	2nd Stage				
5.5	5.0	5G55H5G (Gas)	700	10,000	427	100	3-way 3-position	Advance/Hold/Return	3600	93
10.2	10.0	5G102H5G (Gas)	700	10,000	600	200	4-way 3-position	Advance/Hold/Return	3600	93
7.3	10.0	5D73H10G (Diesel)	700	10,000	600	200	4-way 3-position	Advance/Hold/Return	3600	93








### AIR PUMP AND SINGLE-ACTING CYLINDER MATCHING CHART

Capacity (Tons) ▶ Stroke (Inches) ▼	5	10	15	25	30	55	75	100
<1.00								
1.00								
2.00								
3.00								
4.00								
5.00								
6.00								
7.00								
8.00								
9.00								
10.00								
12.00								
13.00								
14.00								
	 5AS60	 5AS150						
						 5AS380		

Note: Selection based on oil capacity requirements of cylinders.

Not Recommended

### HAND PUMP / E-PUMP AND SINGLE-ACTING CYLINDER MATCHING CHART

Capacity (Tons) ▶ Stroke (Inches) ▼	5	10	15	25	30	55	75	100
<1.00								
1.00								
2.00								
3.00								
4.00								
5.00								
6.00								
7.00								
8.00								
9.00								
10.00								
12.00								
13.00								
14.00								
	 5HS2S35	 5HS2S100	 5HS2S200					
						 5E10H2G		

Note: Selection based on oil capacity requirements of cylinders.