

# ELECTRIC DRIVEN BOOSTER SYSTEMS

## RATED UP TO 14,500-PSI (1000 BAR)

Series 2G Electric Driven Booster package is ideal for filling or topping off low-pressure and high-pressure bottles. Its two-stage and double acting design uses NO Belts or Pulleys, making it the quietest Electric Driven Booster in its class; only 63 dBA. Air cooled with its integrated cooling fan reducing the heat of compression for long seal life.



### SERIES 2G

CE  ISO 9001 & AS9100

### SPECIFICATIONS:

**MOTOR:** 2-HP, 1750/1440 RPM @ 60/50-Hz

**WEIGHT:** 145-Lbs (65.9 Kg)

**VOLTAGES:** 115 VAC, 20.4 Amps, 1-Phase, 60/50 Hz  
 220 VAC, 10.2 Amps, 1-Phase, 60/50 Hz  
 230 VAC, 5.8 Amps, 3-Phase, 60/50 Hz  
 460 VAC, 2.9 Amps, 3-Phase, 50 Hz  
 380 VAC, 3.0 Amps, 3-Phase, 50 Hz

**DIMENSIONS:** 37"L x 11.5"H x 22"D (940x292x559 mm)

**LOW NOISE LEVEL:** 63 dBA

**OPERATING SPEED:** 43, 70, 88, 115 Cycles/min (CPM)  
 Optional: Variable Frequency Drive

**PORTS (INLET/OUTLET):** 1/4" or 3/8" NPT or 37° Flare

**MAX. OUTLET PRESSURE:** 14,500 PSI (1000 BAR)

### MODEL SELECTION TABLE:

Model 2G	Maximum Pressure PSI (BAR)		Minimum Gas Inlet Pressure PSI (BAR)	Maximum Discharge Flow Rate @ 70-CPM SCFM (LPM)
	Inlet	Outlet		
<b>TWO STAGE</b>				
0714	510 (35)	1,700 (117)	30 (2)	7.02 (199)
0730	220 (15)	4,500 (310)	30 (2)	3.12(88)
0750	115 (8)	7,500 (517)	30 (2)	1.7 (48)
1430	820 (57)	4,100 (283)	80 (6)	5.89 (167)
1450	450 (31)	7,500 (517)	80 (6)	3.25 (92)
1492	250 (17)	14,500 (1,000)	80 (6)	1.18 (33)
3050	2,200 (152)	7,200 (497)	300 (21)	6.93 (196)
3092	1,300 (90)	14,000 (966)	300 (21)	4.04 (114)
5092	4,200 (290)	12,500 (862)	500 (34)	7.36 (208)
<b>DOUBLE ACTING</b>				
0707	800 (55)	800 (55)	30 (2)	21.9 (620)
1414	1,500 (103)	1,500 (103)	80 (6)	21.54 (610)
3030	3,500 (241)	3,500 (241)	300 (21)	22.22 (629)
5050	6,000 (414)	6,000 (414)	500 (34)	21.39 (606)
9292	6,000 (414)	13,000 (897)	800 (55)	12 (340)

### CONTROLS:

#### STANDARD

- Automatic High Pressure Limit Switch set to STOP the booster when the gas outlet pressure exceeds set point
- Manual Start & Stop Switch
- Safety Relief Valve
- Inlet & Outlet Pressure Gauges (dual Scale)
- 6-Digit Hour Meter
- Inlet & Outlet 5-Micron Filters
- Cooling Fan
- Outlet Shutoff Valve (Needle Type)
- Bleed Valve (Needle Type)

#### OPTIONAL

- Automatic Low Pressure Limit Switch set to STOP & RESTART the booster when the gas inlet pressure drops below set point
- Automatic High Pressure Limit Switch set to STOP & RESTART the booster when the gas outlet pressure exceeds set point
- Remote Start & STOP Switch with 10-foot cord
- Flow Control gas Inlet Pressure regulator with full pressure bypass line
- Dual Outlet Pressure Control
- 4-Port Outlet Manifold
- Oxygen Cleaned to MIL-STD-1330D



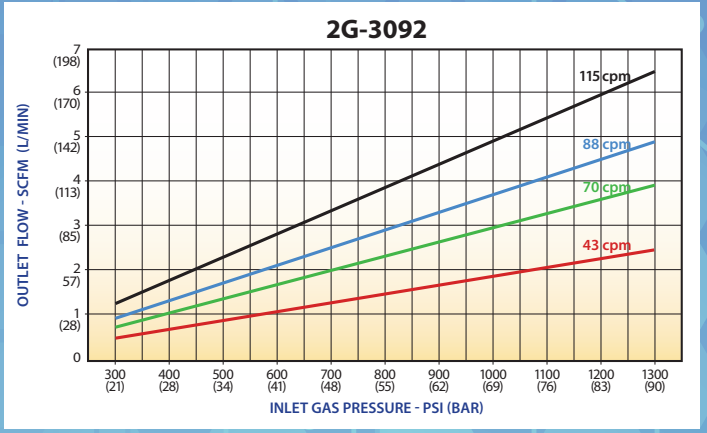
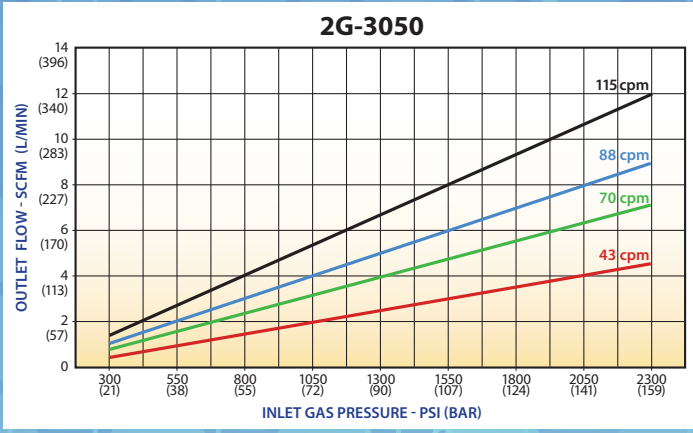
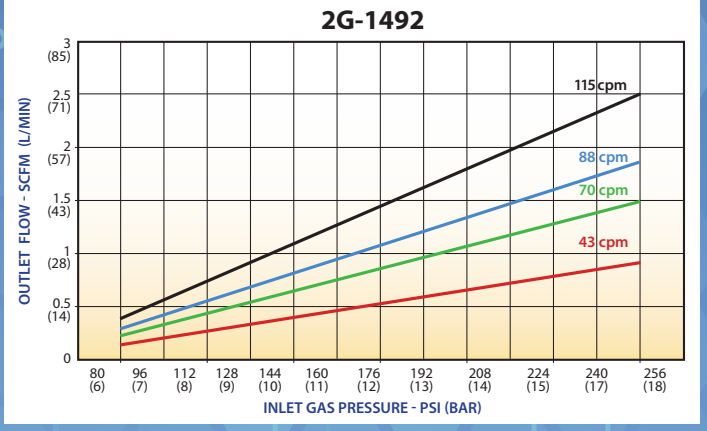
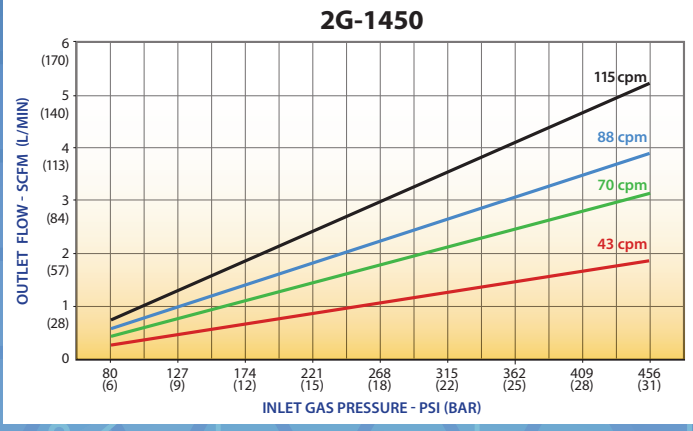
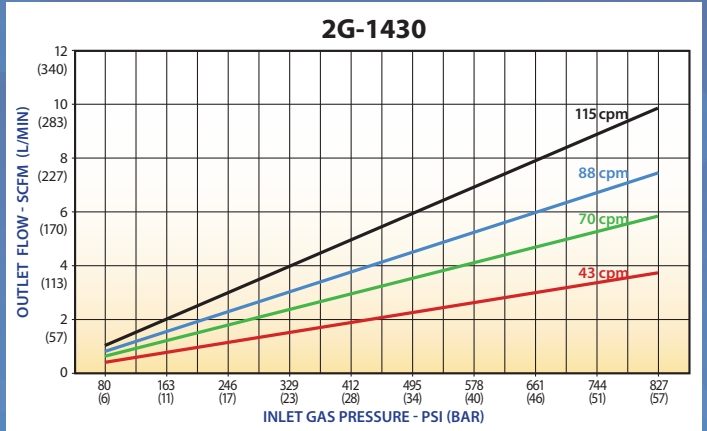
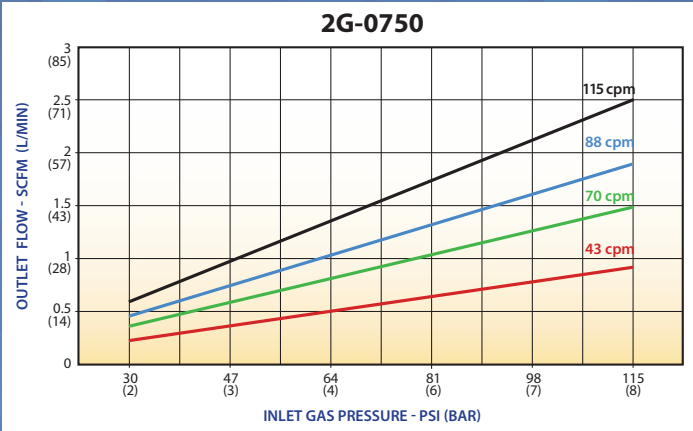
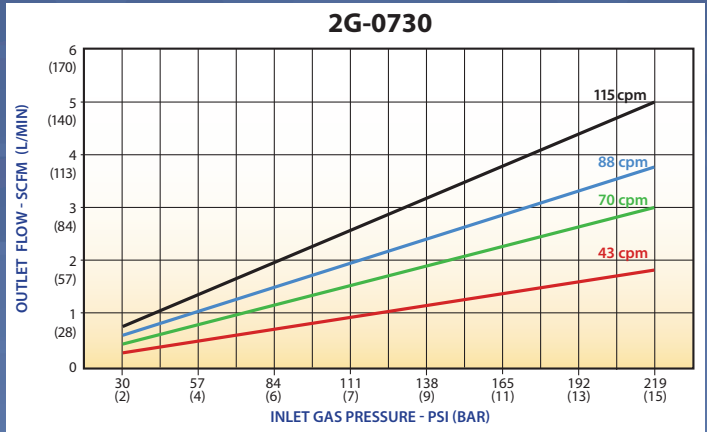
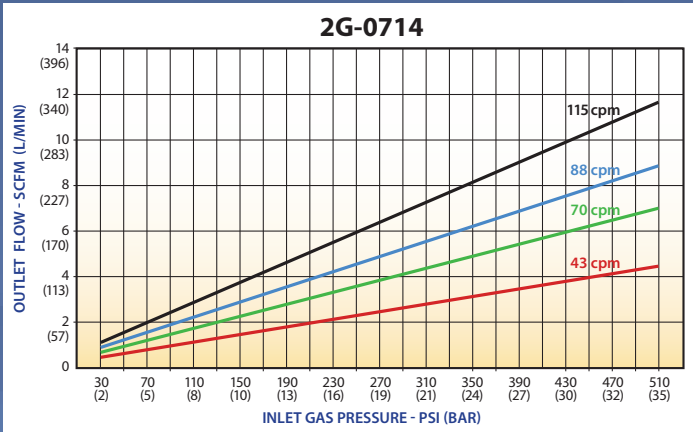
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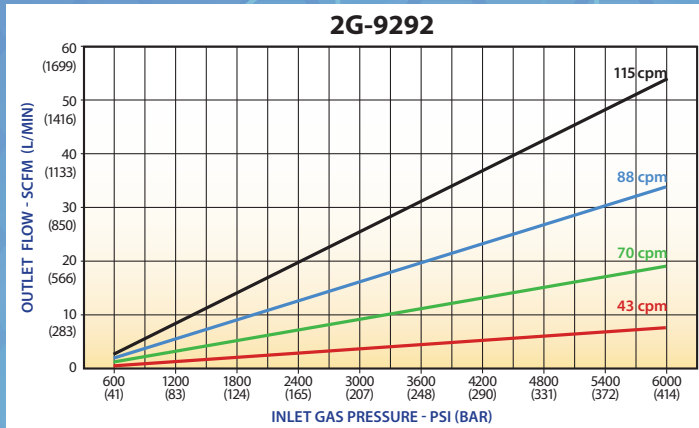
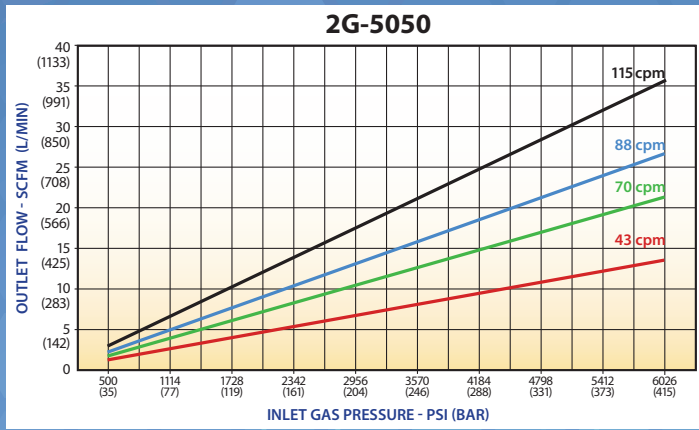
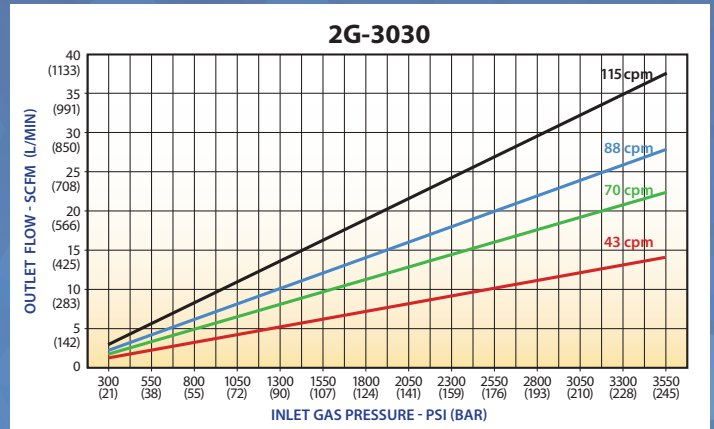
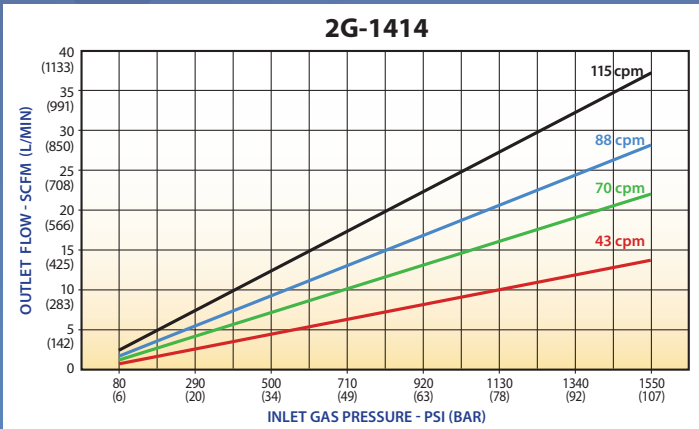
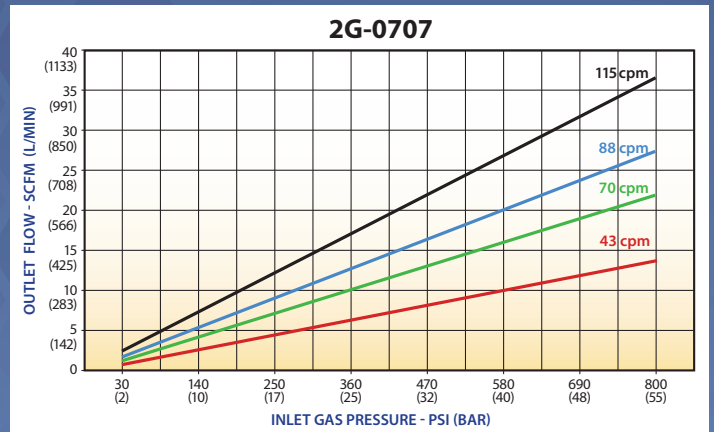
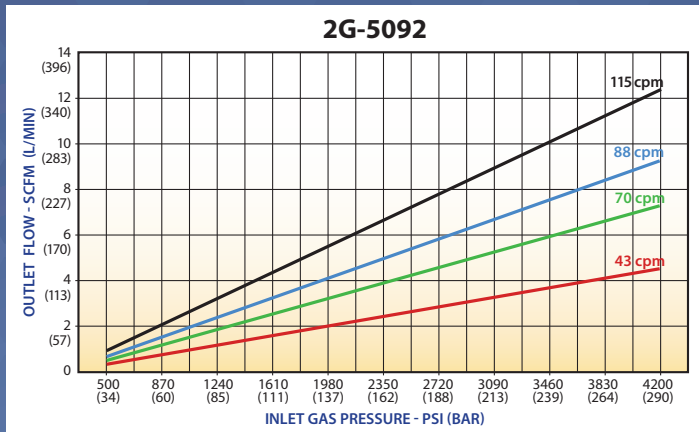
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# PERFORMANCE CURVES



# PERFORMANCE CURVES



## 2G MODEL SELECTION SYSTEM

2G- [ ] [ ] [ ] [ ] [ ]

### VOLTAGE

- A 115 VAC, 24 amps, 1-Phase, 60/50 Hz
- B 220 VAC, 12 amps, 1-Phase, 60/50 Hz
- C 208/230 VAC, 6.8 amps, 3-Phase, 60/50 Hz
- D 460 VAC, 3.4 amps, 3-Phase, 50 Hz
- E 380 VAC, 5.0 amps, 3-Phase, 50 Hz

### CONFIGURATION

- |              |                    |
|--------------|--------------------|
| 0714 2-stage | 3092 2-stage       |
| 0730 2-stage | 5092 2-stage       |
| 0750 2-stage | 0707 Double Acting |
| 1430 2-stage | 1414 Double Acting |
| 1450 2-stage | 3030 Double Acting |
| 1492 2-stage | 5050 Double Acting |
| 3050 2-stage | 9292 Double Acting |

### OPERATING SPEED

- 1 43-46 cycles/min
- 2 69-73 cycles/min
- 3 112-116 cycles/min
- 4 86-89 cycles/min
- VFD Variable Frequency Drive w/Potentiometer

### MODIFICATION

- A Auto start/stop - low pressure limit switch
- B Auto start/stop - high pressure limit switch
- DO Dual Outlet pressure control
- M4 4-Port Outlet Manifold
- MX4 4-Port Outlet Manifold with gauges, on/off and bleed valves
- R Remote start/stop switch with 10-foot cord
- P All vents connected to a common port (for O2 & H2 service)
- PR Pressure reducing regulator, check valve & relief valve
- CID2 Class I Division II, Group B, C and D
- 1330 O2 cleaned to MIL-STD 1330D
- 1730 Watertight Enclosure

**NOTE:** Adding any modification to standard 2G part number will change system to model HIHPG2-XXXXX followed by a 5-digit part number



# OTHER HII QUALITY PRODUCTS

## AIR DRIVEN LIQUID PUMPS

- Self lubricating
- No electrical power needed
- Portable, lightweight and economical
- Wide range of models in 3", 5 3/4" and 7" drive sizes
- Pressures up to 80,000 PSI (5517 BAR)
- All models are rated for plain water or oil
- Ideal for OEM applications



## AIR DRIVEN GAS BOOSTERS

- Boosts pressure from 50 PSI (3.4 BAR) to 30,000 PSI (2068 BAR)
- Airline lubrication not required
- Lightweight, one-man portable
- Corrosion resistant including offshore environment
- Self-cooling using own exhaust air
- No electrical connections needed
- Wide range of models: single acting, double acting, two stage and double air drive configuration



## AIR DRIVEN AIR PRESSURE AMPLIFIERS

- Boosting shop air to pneumatic tools, cylinders and devices
- Boosting shop air to drive high-pressure pneumatic diaphragm transfer pumps
- Boosting shop air to start oilfield and marine diesel engines
- Maximizing efficiency at pneumatic workstations or machinery
- Tire pressure top off on large mining vehicles
- Replace bottled nitrogen for gas testing, lab or production, up to 700 psi (48.3 BAR)

## FLOWMETRICS

- Liquid Flowmeters - to 15,000 GPM (56,781 lit/min)
- Gas Flowmeters - to 15,000 CFM (425 Nm3/min)



## COMPONENTS

- Check valves - up to 20,000 PSI (1379 BAR), up to 2"
- Needle valves - straight or angled to 5,000 PSI (345 BAR)
- In-line filters rated to 5,000 PSI (345 BAR), 3 to 25 micron
- Double acting hand pumps - to 3,000 PSI (207 BAR)
- Pressure relief valves - to 60,000 PSI (4137 BAR)

## SYSTEMS

- Aircraft Ground Support Equipment (portable & stationary)
- Component Test Equipment
- Customer Designed Equipment
- Central Systems
- Commercial and Military Applications
- Self Propelled Aerial Lift Truck



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