ELECTRIC DRIVEN BOOSTER SYSTEMS

RATED UP TO 10,000-PSI (690 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 60 dBA. Air cooled with its integrated cooling fan reducing the heat of compression for long seal life.

SERIES 2G

CE Ex ISO 9001: 2008 & AS9100: 2009 REV. C

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, 60/50 Hz
380 VAC, 3.0 Amps, 3-Phase, 60/50 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 Drive

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

MAX. OUTLET PRESSURE: 10,000 PSI (690 BAR)

MODEL SELECTION TABLE:

Model 2G	Maximum Pressure PSI (BAR)		Minimum Gas Inlet Pressure PSI (BAR)	Discharge Flow Rate @ 70-CPM SCFM (LPM)
	Inlet	Outlet		
TWO STAGE				
0714	400 (28)	1400 (97)	30 (2)	11 (312)
0730	175 (12)	3500 (241)	30 (2)	2.4 (68)
0750	100 (7)	6000 (414)	30 (2)	1.4 (40)
1430	620 (43)	3500 (241)	80 (6)	4.5 (127)
1450	350 (24)	6000 (414)	80 (6)	2.6 (74)
1492	200 (14)	10,000 (690)	80 (6)	1.5 (43)
3050	1800 (124)	6000 (414)	300 (21)	5.8 (164)
3092	1000 (69)	10,000 (690)	300 (21)	3.2 (91)
5092	3200 (221)	10,000 (690)	500 (34)	5.8 (164)
DOUBLE ACTING				
0707	750 (52)	750 (52)	30 (2)	20.6 (583)
1414	1400 (97)	1400 (97)	80 (6)	20.4 (577)
3030	3500 (241)	3500 (241)	300 (21)	22.6 (640)
5050	6000 (414)	6000 (414)	500 (34)	21.8 (617)
9292	10,000 (690)	10,000 (690)	800 (55)	20.4 (558)

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

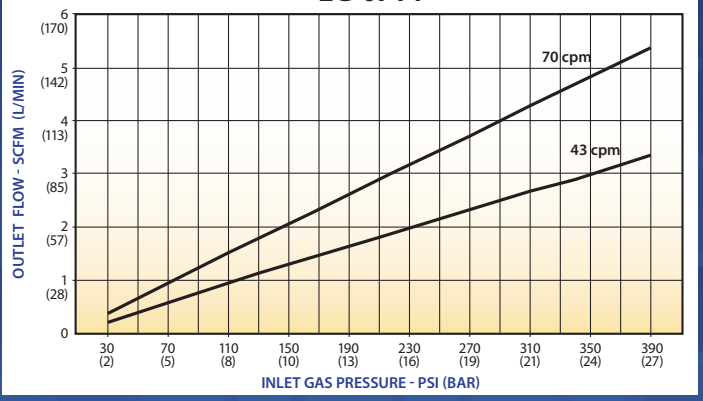
- Automatic Low Pressure Limit Switch set to STOP & RESTART the booster when the gas inlet pressure drops below set point
- Automatic High Pressure Limit Switch set to STOP & RESTART the booster when the gas outlet pressure exceeds set point
- Remote Star & STOP Switch with 10-foot cord
- Flow Control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

HYDRAULICS INTERNATIONAL, INC.® (HII)
CHATSWORTH, CALIFORNIA
www.hiigroup.com (818) 407-3400

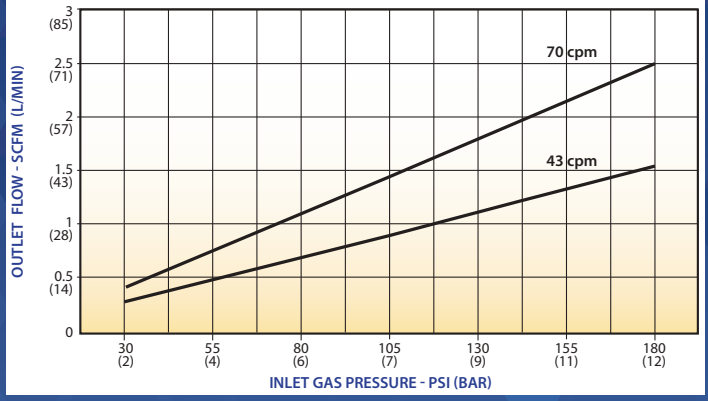
Made in the U.S.A.

PERFORMANCE CURVES

2G-0714



2G-0730



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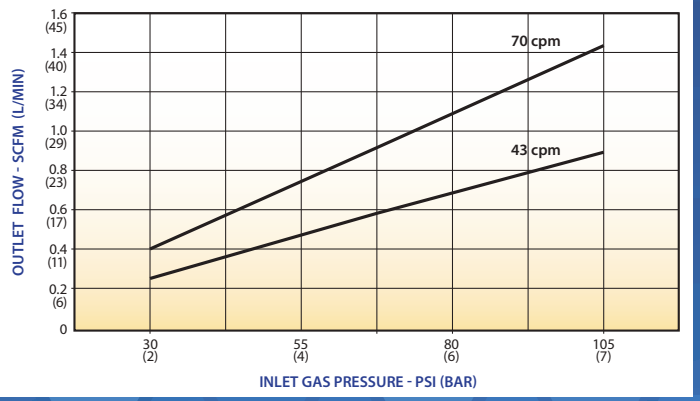

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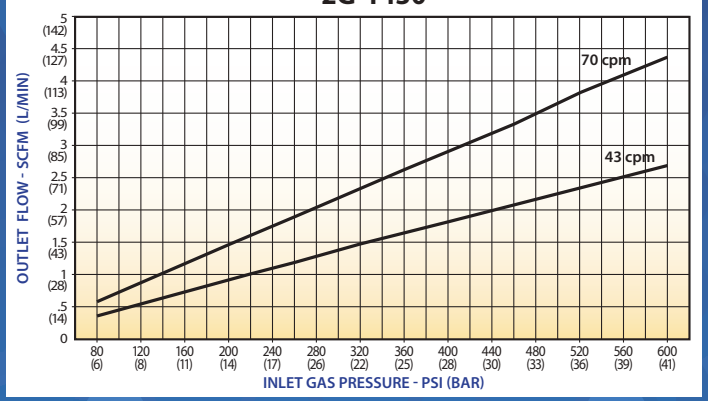

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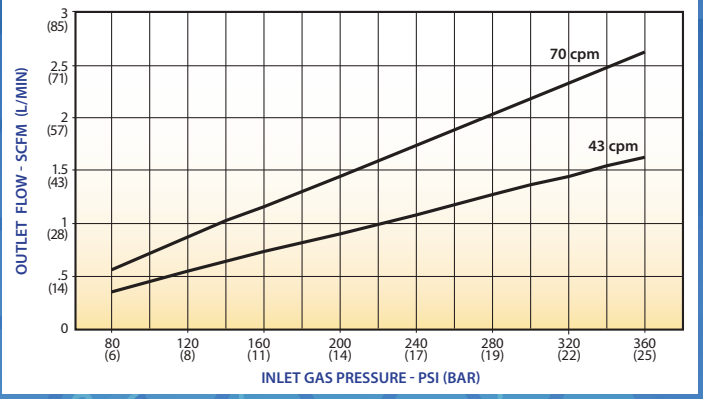

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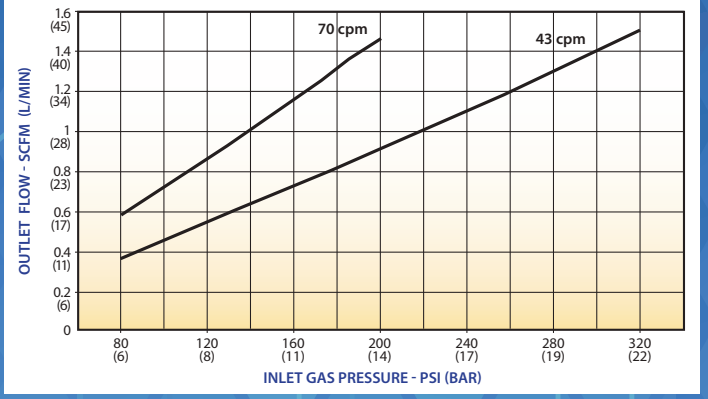

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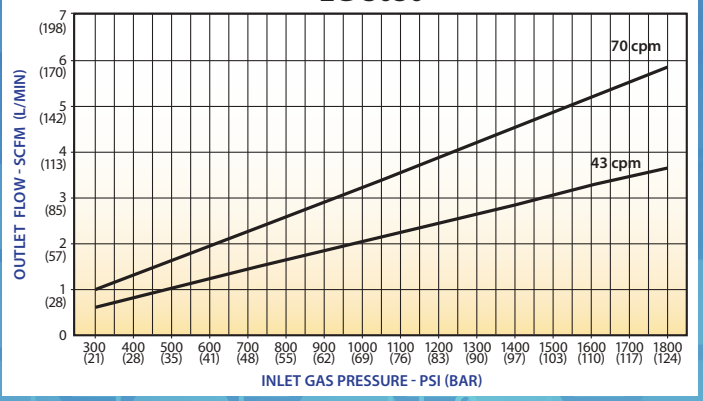

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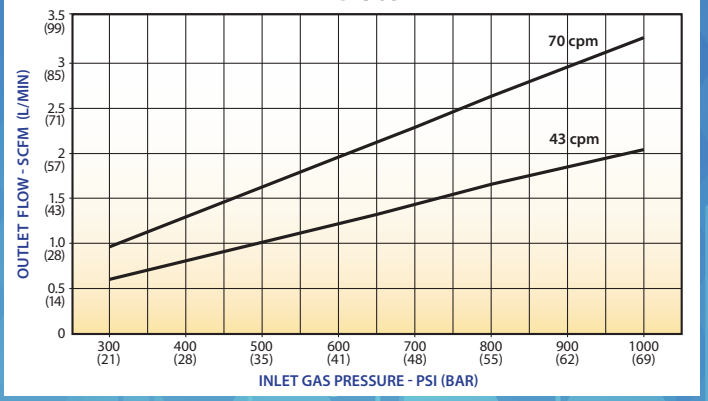
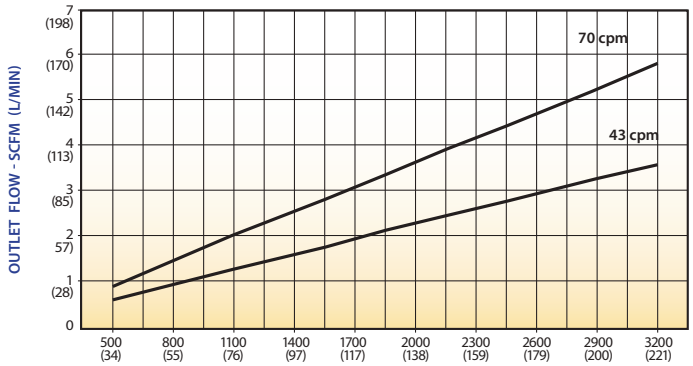


PERFORMANCE CURVES

2G-5092



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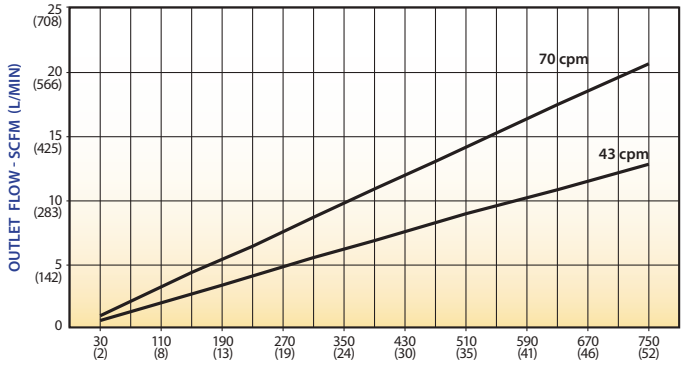

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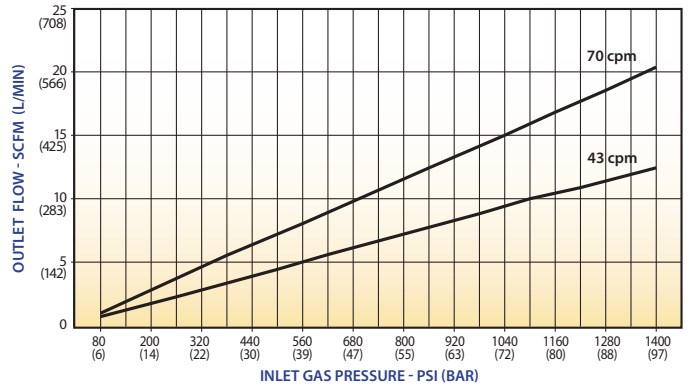

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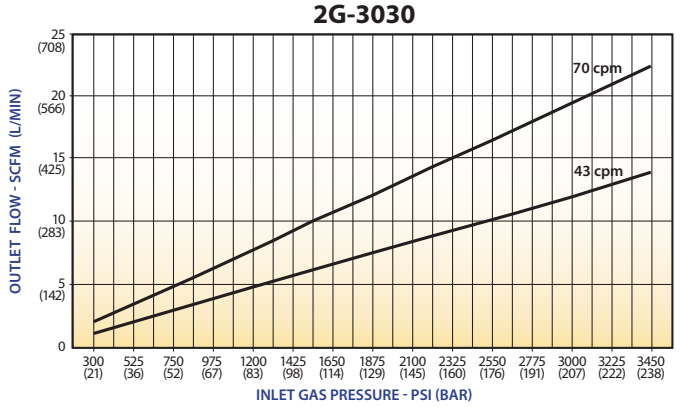

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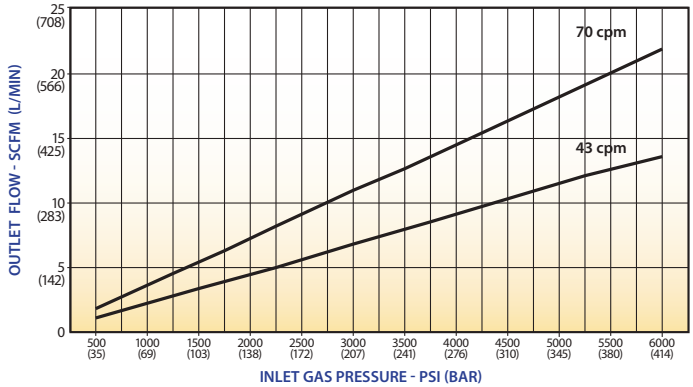

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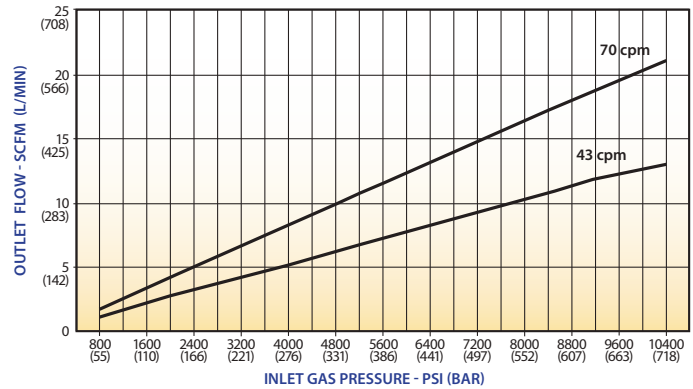

2G MODEL SELECTION SYSTEM

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, 60/50 Hz
E	380 VAC, 5.0 amps, 3-Phase, 60/50 Hz
F	220 VAC, 12 amps, 1-Phase, 50 Hz, 1740 RPM

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
VD	Variable 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
M	4-Port Outlet Manifold
MX	4-Port Outlet Manifold with gauges, on/off and bleed valves
R	Remote start/stop switch with 10-foot cord
P	All vent connected to a common port (for O2 & H2 service)
PR	Pressure reducing regulator, check valve & relief valve
CID2	Class I Divison 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

Made in the U.S.A.

HYDRAULICS INTERNATIONAL, INC.® (HII)

9201 Independence Avenue, Chatsworth, CA 91311 USA

Tel: (818) 407-3400 • Fax: (818) 407-3428 • Email: sales@hiipumps.com

www.hiigroup.com

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