

AIR-DRIVEN GAS BOOSTER MODEL 3G-SS-20

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Hydraulics International, Inc. (HII) gas booster is designed to boost oxygen, breathing air and nitrogen directly from a cascading system, a gas generation system, a cryogenic system or a high pressure compressor to outlet pressures of 3450-psi (238 bar). The unit ensures full fills of cylinders even if the supply source of gas drops to as low as 300-psi (20 bar). Ideal for General Aviation, Municipal Fire, Rescue, Dive Shop, Yachts and Rescue Services.

Key Benefits:

- Increase System Capacity: Up to 50% more fills
- Eliminate Cascading: Allows you to fill or top-off from storage as low as 300 psi (20 bar)

Key Features:

- Boost gas pressure from 300 psi to 3450 psi
- Hold Pressure. Can be controlled to stop at any predetermined pressure and hold that pressure indefinitely without consuming power, and restart under full load.
- Intrinsically Safe. Compressed air reduces risk of heat, flame, spark, or electrical shock.
- Contamination FREE. Separation between drive and gas section uses three static seals with dual vents.
- May be **Driven** manually, by means of its integral hand pump assembly; a low pressure conventional air compressor, (install airline filtration/water trap); or Regulated high-Pressure air storage supply (SCUBA, SCBA or NITROGEN bottles). Maximum 150-psi air supply.

Optional Controls:

- Integral hand pump assembly (2000 psi MAX. outlet pressure)
- High pressure air controls (HP regulator, relief valve and on/off valve)
- Oxygen fill accessory kit (inlet CGA-540 connector, 60" inlet & outlet hoses, outlet filter, outlet on/off valve, gauge, and DIN connector with bleeder)
- Watertight protective case with wheels (22"L x 14"W x 9"H)

	Specifications:		
	Dimensions:	13.25L x 3.25"D x 3.25"H	
•	Weight:	10.5-pounds (4.8 Kg)	
•	Pressure Ratio:	23:1	
•	Maximum outlet pressure:	3,450-psi (238 Bar)	
•	Max/min drive air pressure:	150/12-psi (10/0.8 Bar)	

Sp	ecifications:	PORT SIZES			
- Air	• Air drive: ¼" NPTF				
• Ga	Gas inlet: -6 SAE (9/16" x 18 straight threads)				
- Ga	Gas oulet:-6 SAE (9/16" x 18 straight threads)				
Ex	Exhaust: ¼" NPTF				
- Re	mote pilot: 1/8″ NPT	F			

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Performance:

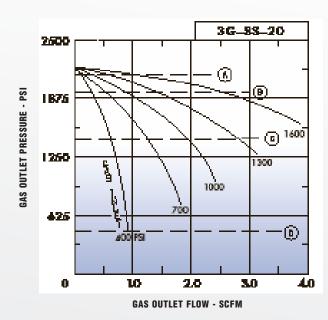
Approximate fill-time* for a 19 cu-ft O₂ Bottle to 2,400-psi

SYSTEM PRESSURE AFTER EQUALIZATION	APPROX. FILL-TIME	APPROX. FILL RATES
2000 psi	1.0 minutes	3.0 scfm
1500 psi	3.1 minutes	2.3 scfm
1000 psi	7.3 minutes	1.5 scfm
500 psi	20 minutes	0.8 scfm

^{*}Based on 105-psi shop air and 60 cycles per minute. **NOTE:** DO NOT exceed 200 psi/min. transfer rate for pure oxygen and 50-70 psi/min. during mixing.

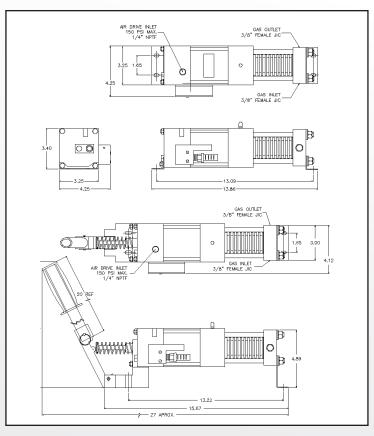
PERFORMANCE CURVE

(Assume an air drive source of approximately 100 psi from 1/4" I.D. piping)



Dashed lines represent approximate air consumption: (A): 2 SCFM (B): 4 SCFM (C):6 SCFM (D): 9 SCFM

DIMENSIONAL DATA



Other HII Quality Products: 100% USA Made



Air Driven Liquid Pumps



Pneumatic and Hydraulic Test Equipment



Fluid Power Components

HYD-3238



HYDRAULICS INTERNATIONAL, INC.