

Applications for Pneumatic and Hydraulic Driven Gas Boosters and Gas Booster Systems

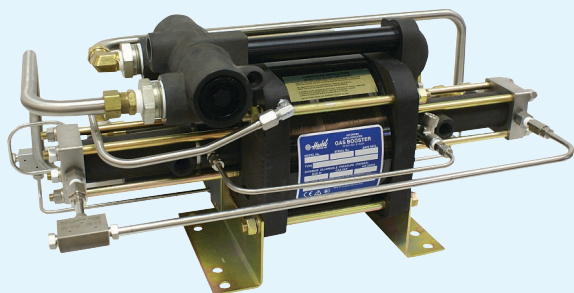
General Applications

- Condenser Leak Detection
- Gas Transfer Circuit Breakers
- Aircraft Jacking
- Helicopter Pop Floats
- Autoclaving - Low Pressure
- Hot Isostatic Presses
- Automotive Air Bag Vessel Filling
- Helium Leak Pressure Testing
- Blow Molding
- Boost Pressures from N2/O2 Generators
- Breathing Air Systems
- Laser Cutting (Ar, N2,O2, He)
- CFC Recovery
- Leak Detection Systems
- Charging Gas Suspensions
- Missile Test Systems
- Cooling with Helium in Pilot Plants
- Nitrogen Injection for Molding Machines
- Cryostat Testing (Nitrogen and Argon)
- Nitrogen Accumulator Charging
- Die Cushion Cylinder Charging
- Oxygen Life Support Bottles
- Escape Chute Charging – Co2 Charging
- Oxygen Boosting
- Fuel Cells; Mobile, Portable and Stationary
- Power Valve Actuation/Hold Dump Valves Closed
- Gas Assisted Injection Molding (GAIN)
- Gas Charging for Aircraft Tire Inflation
- Pressure Testing of Hydraulic Systems – Skydrol
- Gas Pressure and Leak Testing
- Super Critical Fluid Extraction
- Gas Reclaim - Low Pressure
- Testing Brake Calipers
- Cylinder Hydro Test

Hydrogen Applications

Haskel Manufactures the most extensive range of gas handling solutions for gas transfer or boosting applications, including **Hydrogen**. **Hydrogen** use products include Pneumatic or Hydraulic Driven Gas Boosters, Diaphragm Compressors, and BuTech High Pressure Valves and Fittings, that are Hydrogen rated to over 20,000 psig.

- Hydrogen Infrastructure
- Hydrogen Fueling & Filling Stations
- Hydrogen Compression, Storage & Transfer
- Fuel cell: Mobile, Portable & Stationary
- Boosting H2 Generator Outlet Pressure
- Hydrogen Purification
- Hydrogen Generation
- Hydrogenation
- PTA manufacture
- Polysilicon manufacture
- Petroleum recovery and refining
- Hydrogenation reactions
- Cylinder filling for storage from H2 generation
- R&D lab gas distribution
- Power generation (used as a coolant)
- Semiconductor manufacturing



Pneumatic Driven Gas Boosters for Hydrogen Applications

Booster Model	Supply Pressure	Flow SCFM @ psi*	Pressure Limit (psi)	Hydrogen System Model #
AG-62	1000	4.21 @ 4800	9,000	86979
AG-75	1500	3.81 @ 6000	12,000	86980
AG-152	2000	3.02 @ 12000	15,000	86981
AGD-7	150	6.85 @ 710	2,500	86982
AGD-15	500	10.68 @ 1700	4,000	86983
AGD-30	750	8.12 @ 3150	9,000	86984
AGD-32	750	10.75 @ 3150	4,000	86985
AGD-62	1000	6.97 @ 5800	9,000	86986
AGD-75	1500	6.18 @ 7500	12,000	86987
AGD-152	2000	5.07 @ 14000	15,000	86988
AGT-7/15	100	2.63 @ 1410	2,500/4,000	86989
AGT-7/30	100	2.30 @ 2820	2,500/9,000	86990
AGT-14/62	250	5.8 @ 4000	2,500/9,000	86991
AGT-15/30	500	5.88 @ 3400	4,000/9,000	86992
AGT-15/75	250	2.34 @ 7250	4,000/12,000	86993
AGT-30/75	500	2.70 @ 7250	9,000/12,000	86994
AGT-32/62	1000	8.08 @ 6800	4,000/9,000	86995
AGT-32/152	350	1.93 @ 13750	4,000/15,000	86996
AGT-62/152	1000	3.80 @ 14500	9,000/15,000	86997

Based on 100 psi Drive Pressure and 48 SCFM (Pa=100, Qa=48)

Booster Model	Supply Pressure	Flow SCFM @ psi*	Pressure Limit (psi)	Hydrogen System Model #
8AGD-14	150	9.20 @ 980	5,000	87219
8AGD-30	750	14.26 @ 3150	5,000	87201
8AGD-60	1000	9.47 @ 5800	9,000	87185
8AGT-14/30	500	10.73 @ 3400	5,000	87226
8AGT-14/60	250	3.87 @ 6000	9,000	87225
8AGT-30/60	1000	10.4 @ 6800	9,000	87224

Based on 100 psi Drive Pressure and 95 SCFM (Pa=100, Qa=95)