

## AIR AMPLIFIER SELECTION CHART

DRIVE SIZE In (mm)	MAX AIR DRIVE PSIG (kPa)	MODEL	RATIO	MAX INLET PSIG (kPa)	MAX OUTLET PSIG (kPa)	DISPL/ CYCLE In <sup>3</sup> (ML)
2.87 (73)	125 (862)	HAA31-2.5	2.5:1	125 (862)	320 (2206)	2.40 (39.3)
2.87 (73)	125 (862)	HAA31-3.5	3.5:1	125 (862)	450 (3103)	1.77 (29.0)
2.87 (73)	125 (862)	HAA31-4.5	4.5:1	125 (862)	600 (4137)	1.35 (22.1)
4 (102)	125 (862)	4AAD-2	2:1	250 (1723)	250 (1723)	62.5 (1024)
5.75 (146)	150 (1034)	AA-8	8:1	1250 (8618)	2500 (17236)	13.2 (216)
		AA-15	15:1	2250 (15513)	2250 (15513)	6.2 (101)
		AA-30	30:1	4500 (31026)	4500 (31026)	3.1 (51)
		AAD-2	2:1	300 (2068)	300 (2068)	201 (3294)
		AAD-5	*5:1 (4:1)	1250 (8618)	1250 (8618)	19.3 (316)
		AAD-15	15:1	2500 (17236)	2500 (17236)	12.4 (203)
		AAD-30	30:1	4500 (31026)	4500 (31026)	6.2 (101)
		AAT-7/30	7/30	300 (2068)	4500 (31026)	13.2 (216)
		AAT-15/30	15/30	1000 (6895)	4500 (31026)	6.2 (101)
		AAT-30/50	30/50	3000 (20684)	5000 (34474)	3.1 (51)
8 (203)	130 (896)	8AAD-2	2:1	300 (2068)	300 (2068)	400 (6555)

### MODEL NUMBER CODES

**HAA31** Single acting, single stage air pressure amplifier.

**& AA** Maximum Po ("Stall") = Pa x Ratio

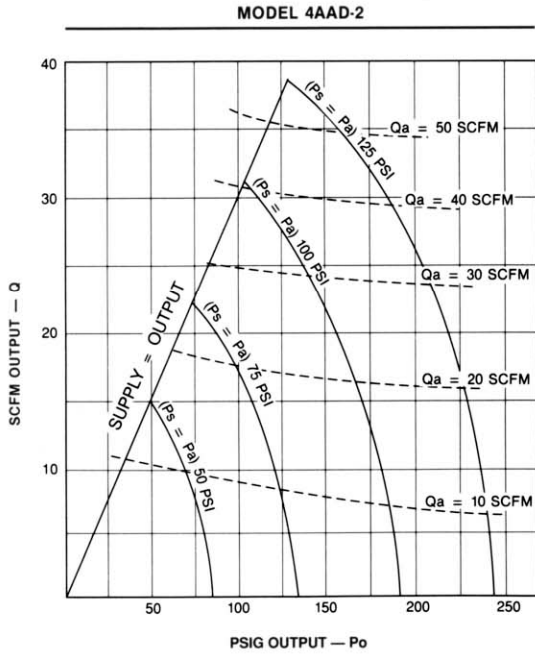
**AAD** Double acting, single stage air pressure amplifier provides outlet flow on each stroke of cycle and gains "lift" from inlet pressure.

Maximum Po ("Stall") = Pa x Ratio + Ps (\*Often Pa = Ps)

**AAT** Two-stage air pressure amplifier provides two high pressure pistons of different ratios within a single unit for maximum efficiency at higher outlet pressures.

Maximum Po ("Stall") = Pa x Ratio 2nd Stage + Ps x Ratio Stages

# 4AAD-2 SERIES PERFORMANCE, CONTROLS & OPTIONS



NUMBER	DESCRIPTION
-C	Air (F-R, Gauge & Valve) Controls
56594	External Pilot Modification
56569	No Load Run Away & Regulator
56564	Extreme Service Cycling Mod
56570	Receiver & Controls

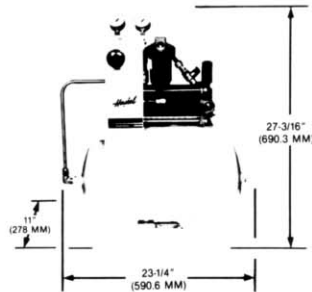
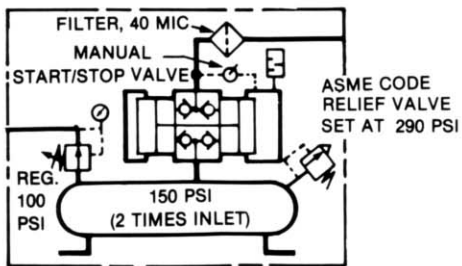
**NOTE:** Total input air volume required = Q + Qa

**CONVERSION:**

1 bar = 14.5 psig

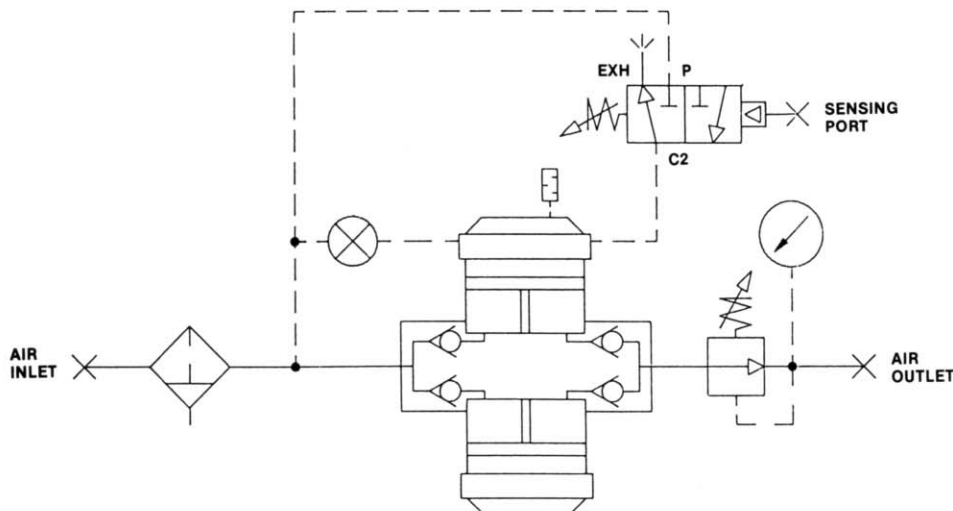
1 normal cubic meter per minute = 35.31 scfm

## 56570

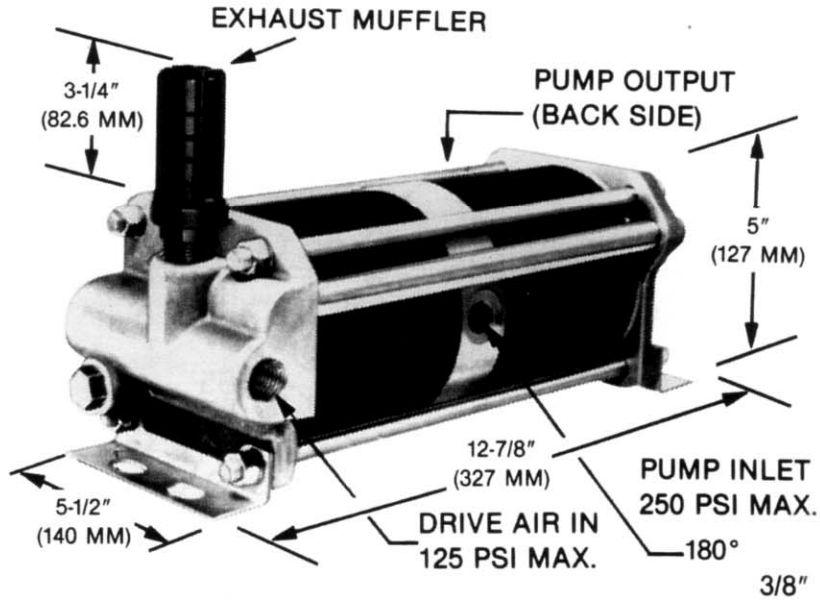


**MODEL 56570**  
for 4AAD-2 on 5 3/4 gal., 290 psi ASME code receiver with controls and ASME relief valve.

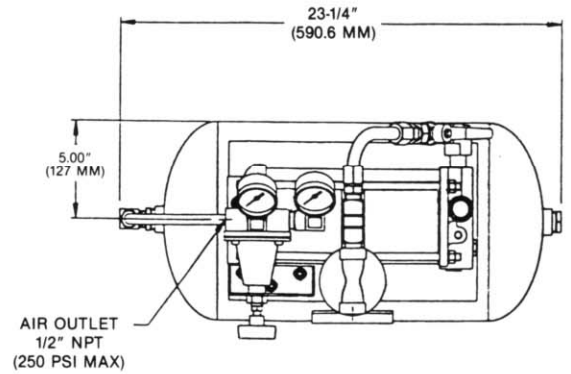
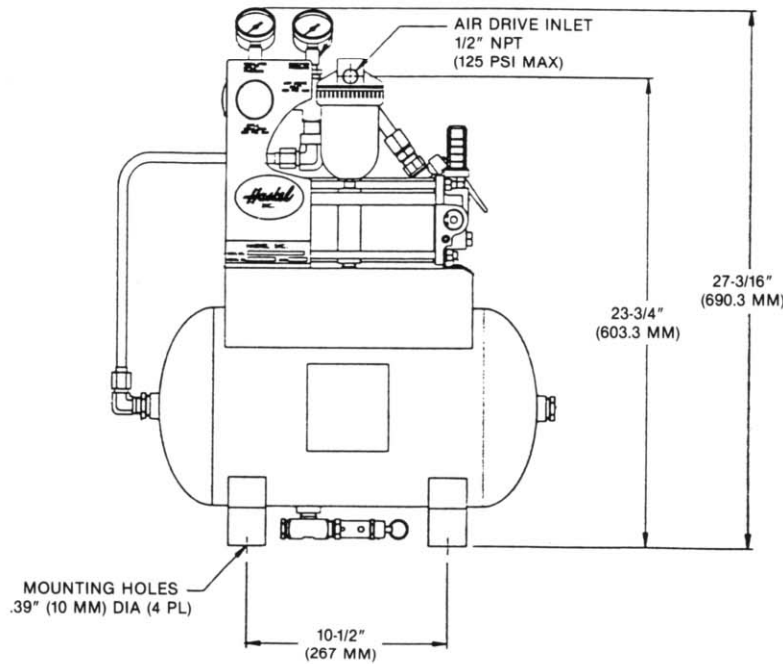
## 56569



# 4AAD-2 SERIES DIMENSIONS

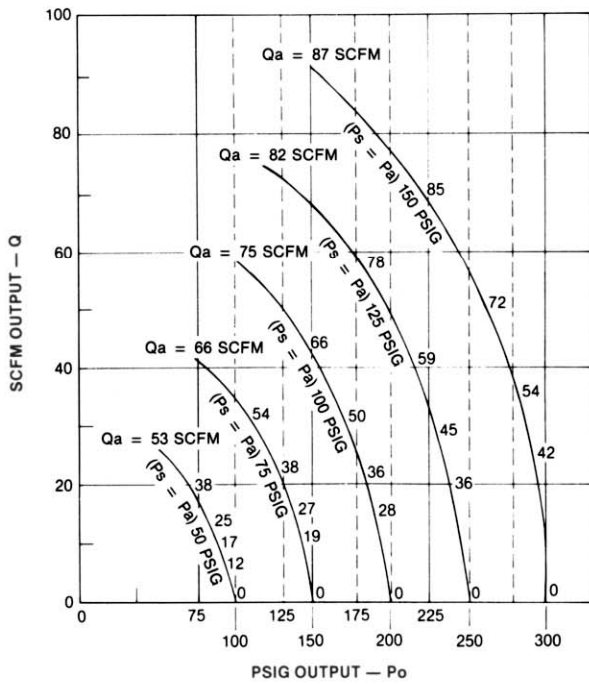


56570



# AA-2, AAD-5 PERFORMANCE

MODEL AAD-2

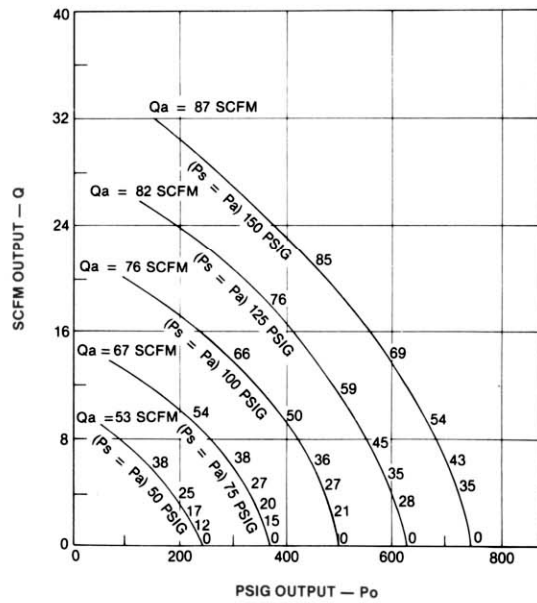


NOTE: Total input air volume required = Q + Qa

CONVERSION:

- 1 bar = 14.5 psig
- 1 normal cubic meter per minute = 35.31 scfm

MODEL AAD-5



NOTE: Total input air volume required = Q + Qa

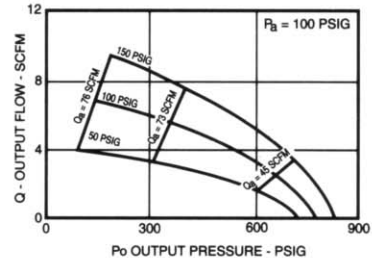
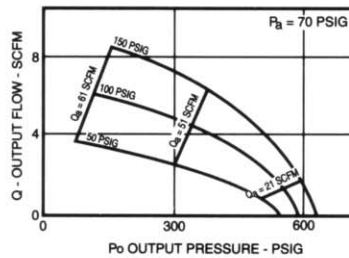
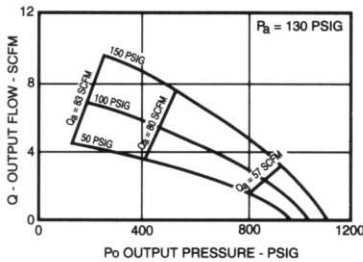
CONVERSION:

- 1 bar = 14.5 psig
- 1 normal cubic meter per minute = 35.31 scfm

# AA SERIES PERFORMANCE

The following models are often used in applications where the drive pressure, Pa, is regulated below a higher supply pressure, Ps, (e.g., if bottled nitrogen is supply and plant air is drive). The shaded areas on three charts are beyond rated maximum working pressure.

MODEL AA - 8



MODEL AA - 15 Single Acting - Single Stage

