

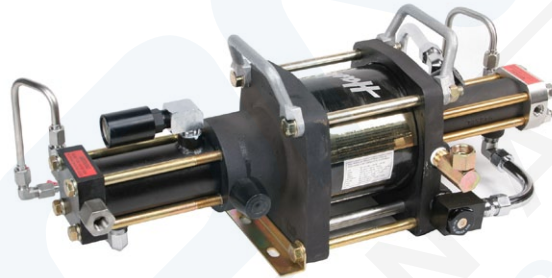
DOUBLE ACTING SINGLE STAGE MODEL "AGD"

Double Acting Single Stage Model "AGD" boosters not only pump twice the volume of the AG Series per cycle, but also require less air drive since the inlet gas pressure itself provides a substantial portion of the required driving force. These models provide efficient means of boosting large volumes of gas at low to medium compression ratios⁽¹⁾. Maximum outlet pressure is drive area ratio times air pressure.



TWO STAGE MODEL "AGT"

Two Stage Model "AGT" boosters provide efficient means of boosting to a high compression ratio since the ratio per stage is low. Maximum outlet pressure with these models is drive area ratio times air pressure PLUS supply pressure times area ratio of the two gas pistons. Since these models have interconnected gas pistons, they multiply supply pressure during the "interstage" stroke by the area ratio of the two gas pistons. If supply pressure is too high, the booster may have "interstage stall" at an outlet pressure substantially less than that obtainable on the "output" stroke. The selection that shows the maximum supply pressure as a factor times Air drive pressure. This limitation does not apply if outlet pressure is less than the "maximum supply" times the area ratio of the two gas pistons.



⁽¹⁾Note: COMPRESSION ratio is ratio of outlet gas pressure to inlet gas pressure. Do not confuse this with area ratio of air drive piston area to gas piston area.

Gas Booster Selection Chart											
Type	Order Number	Max. Rated Gas Outlet Pressure PSIG (Bar)	Min. Normal Gas supply Pressure PSIG (Bar)	Maximum Operating Pressure with: Air Drive Pressure "PA" Gas Supply Pressure "PS"		Max. Compression Ratio	Piston Displacement			Typical Gas Delivery Actual Volume at Pressure (Air Drive 35 SCFM at 85 PSI)	
							Per Cycle In3 (Liter)	Basic Displacement "DB" at Zero Load 100 PSI Drive			
				Supply PS PSIG (Bar)	Outlet "PO"			Cycles per Minute	In3/min. (LIT/min.)	Supply in3/min. at PSIG (LIT/min. at Bar)	Outlet in3/min. at PSIG (LIT/min. at Bar)
Single Acting Single Stage Model AG	AG-7	1,050 (72.4)	25 (1.7)	1,050 (72.4)	7 PA	20:1	13.2 (.216)	124	1,630 (26.7)	590 at 100 (9.67 at 7)	135 at 490 (2.21 at 33.81)
	AG-15	2,250 (155)	50 (3.5)	2,250 (155)	15 PA	20:1	6.2 (.101)	124	769 (12.6)	287 at 300 (4.70 at 20.7)	85 at 1,050 (1.39 at 72.4)
	AG-30	4,500 (310)	100 (7)	4,500 (310)	30 PA	25:1	3.1 (.051)	124	384 (6.29)	142 at 500 (2.33 at 34.5)	34.5 at 2,100 (.565 at 145)
	AG-62	9,000 (620)	200 (14)	9,000 (620)	60 PA	25:1	3.1 (.051)	80	248 (4.06)	91.5 at 1,000 (1.50 at 69)	22 at 4,200 (.361 at 290)
	AG-75	11,250 (775)	250 (17)	11,250 (775)	75 PA	25:1	1.2 (.020)	124	149 (2.44)	55.7 at 1,500 (.913 at 103)	16.0 at 5,250 (2.62 at 362)
Double Acting Single Stage Model AGD	AGD-15	5,000 (345)	50 (3.5)	5,000 (345)	15 PA + PS	20:1	12.4 (.203)	100	1,240 (20.3)	442 at 300 (7.24 at 20.7)	102 at 1,350 (1.67 at 93.1)
	AGD-30	9,000 (620)	100 (7)	9,000 (620)	30 PA + PS	25:1	6.2 (.101)	100	620 (10.2)	215 at 500 (3.52 at 34.5)	42.3 at 2,600 (.693 at 179)
	AGD-62	9,000 (620)	200 (14)	9,000 (620)	60 PA + PS	25:1	6.2 (.101)	69	428 (7.01)	160 at 1,000 (2.62 at 69)	31 at 5,200 (.508 at 359)
	AGD-75	20,000 (1,380)	250 (17)	20,000 (1,380)	75 PA + PS	25:1	2.4 (.039)	100	240 (3.93)	92 at 1,500 (1.51 at 103)	20.6 at 6,750 (.338 at 466)
Two Stage Model AGT	AGT-7/15	4,000 (276)	25 (1.7)	6 PA	15 PA + 2PS	50:1	13.2 (.216)	100	1,320 (21.6)	529 at 100 (8.67 at 7)	48 at 1,250 (.79 at 86.2)
	AGT-7/30	5,500 (379)	25 (1.7)	2 PA	30 PA + 4PS	100:1	13.2 (.216)	100	1,320 (21.6)	463 at 100 (7.59 at 7)	21.1 at 2,500 (.346 at 172)
	AGT-15/30 ***	8,500 (586)	50 (3.5)	15 PA	30 PA + 2PS	50:1	6.2 (.101)	100	620 (10.2)	254 at 300 (4.16 at 20.7)	29.4 at 2,700 (.482 at 186)
	AGT-15/75	13,000 (897)	50 (3.5)	3.5 PA	75 PA + 5PS	100:1	6.2 (.101)	100	620 (10.2)	179 at 150 (2.93 at 10.3)	4.89 at 6,000 (.080 at 414)
	AGT-32/62	9,000 (621)	100 (7)	30 PA	60 PA + 2PS	50:1	6.2 (.101)	69	428 (7.01)	177 at 1,000 (2.90 at 69)	28.9 at 6,200 (4.74 at 428)
	AGT-30/75	16,000 (1,100)	100 (7)	20 PA	75 PA + 2.5PS	60:1	3.1 (.051)	100	310 (5.08)	121 at 500 (1.98 at 34.5)	9.59 at 6,500 (1.57 at 448)

*** The Standard Model AGT-15/30 pump can be purchased Oxygen Cleaned. Please use order number 28007.