

Air Blaster



Keeping Your Business Running

Global[®] Manufacturing, Inc.



DIRECT BLAST AERATORS

The GW and G400 Series Air Blasters

Global Air Blasters are blast aerators consisting of a compressed air reservoir with a quick opening valve that releases the stored air in a sudden, high-energy blast. This blast is directed through a discharge pipe to aerate and dislodge material, and restore flow.

In a direct blast Air Blaster, the air in the reservoir or tank passes directly into the discharge pipe without bends or obstructions in the air course that impede the flow of air. This is important because the quicker the air discharges, the greater the velocity and force of the blast and, therefore, the greater the amount of material affected.

When used in combination, multiple Air Blasters can restore flow to hundreds, thousands, or millions of cubic feet of material. Air Blasters are activated manually or by a micro-controller based sequencing timer which controls the firing time interval and sequence of one or more Air Blasters.

Global Manufacturing offers two lines of direct blast aerators, the GW Series for general use and the G400 Series for high temperature applications such as cement kilns and steel mills.

Applications

Air Blasters are an easy way to solve bulk flow problems in silos, hoppers, chutes, and storage piles. Use Air Blasters where vibration is not practical, other methods are too expensive, dangerous or destructive, or nothing else works. They are commonly used when it is not practical to physically shake stuck material loose. For instance, large concrete bunkers and storage piles on the ground are impossible to vibrate, but are common locations of flow problems.

Air Blasters are recommended for a wide range of material clogs and jams, in hoppers of any size, and are well suited for large structures of any type. They are effective for very cohesive, difficult materials. For instance, wood chips are very difficult to dislodge by other means, but respond very well to the quick-release Air Blaster.

Air Blasters are also used to periodically aerate material sitting in bins, hoppers, and silos since their blast will lift and separate the material rather than compact it.

Air Blaster Selection

Selection of the size and number of Air Blasters is based on the size of the bin, silo, bunker or hopper, and the density and consistency of the material. It is also important to consider the area of influence data to insure full air blast coverage in the problem area. Complete cleaning of the bin wall will require more Air Blasters than simply restoring flow.

AIR BLASTER SELECTION GUIDE																
Discharge	Air Blaster Model	Material Type	Number Of Air Blasters Recommended Per Bin/Hopper												Area of Influence	
			Diameter of Structure													
			FT	3	5	10	15	20	25	30	35	40	45	50	FT	M
2.5"	GW2.5-8-24	I		1	3	6	9	12	15	18	21	24	27	30	4	1.2
		II		1	2	3	5	6	7	8	10	12	13	15	7	2.1
4.0"	GW4-12-28	I		*	3	4	6	10	12	14	16	18	20	25	6	1.8
	G400-40-50	II		*	2	3	4	5	6	7	8	10	11	12	9	2.7
	GW4-20-30	I		*	2	4	6	8	10	11	12	15	16	18	7	2.1
	G400-40-150	II		*	1	2	3	4	5	6	7	8	9	10	10	3.0
6.0"	GW6-24-48	I		*	2	3	5	6	8	9	10	12	14	16	8	2.4
	G400-60-300	II		*	1	2	3	4	5	6	7	8	9	10	12	3.7
	GW6-30-60	I		*	1	2	3	4	5	7	10	10	11	12	10	3.0
	G400-60-650	II		*	1	1	2	2	2	2	3	4	5	5	16	4.9

* Not suitable - too large for application.

TYPE I MATERIAL: These are solids that weigh more than 55 lb/ft³ (881 kg/m³), have mixed size or large chunks, tend to cling regardless of weight, or have a pasty or greasy consistency.

TYPE II MATERIAL: These are solids that weigh less than 55 lb/ft³ (881 kg/m³), are dry and powdery, do not compact or cling during storage, and flow easily under most conditions.

GW SERIES STANDARD AIR BLASTERS

Features

Produces Results Quickly and Efficiently - Quick blast of air permeates the material and dislodges trapped solids.

Handles Big Loads - Air blast spreads out in a cone pattern to aerate and loosen a large volume of material at one time.

Quiet Operation - Noise of air blast is dampened by the material being aerated.

Energy Efficient - Air Blasters have low air consumption since they collect air and are fired intermittently. They require only a small fraction of the air used to operate pneumatic vibrators.

Minimal Maintenance - Single moving part with no springs, motors, or bearings makes Global Air Blasters easy to maintain for many years. ***No Lubrication required.***

More Powerful Air Blast - Direct blast design, lightweight piston, short piston travel, and aerodynamically designed exhaust windows produce a stronger, more productive blast than external valve designs.

No Leakage - Piston designed to prevent air loss during blast. Polypropylene piston conforms to the valve seat, preventing air seepage between blasts. Air loss can be a problem in blasters using a metal to metal seal.

Fills Faster - Standard quick fill port allows tank to fill in less than 60 Seconds (2.5" & 4.0" discharge models). This makes rapid repeat firing possible when needed.

Longevity - Corrosion, abrasion, and impact resistant piston. Coated valve parts resist acidic and basic environments. Piston movement engineered to prevent excessive wear.

Ease of Service - All parts individually replaceable. If a part becomes worn or damaged, it is not necessary to replace the entire valve.

ASME Certified Pressure Vessels

Five Year Warranty

Options

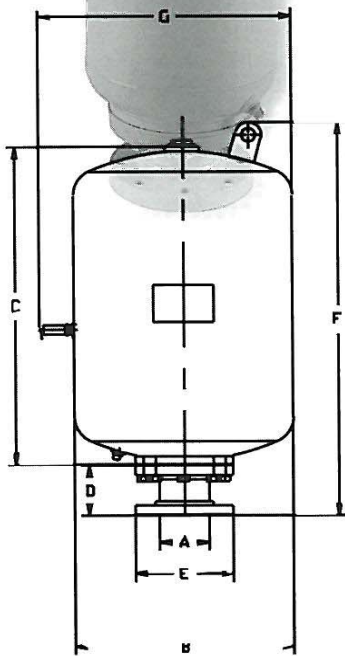
Factory Installed Quick Exhaust Valve - GWE models have Global's unique G-Series quick exhaust valve permanently mounted. This patent pending valve was designed specifically for use with Global Air Blasters. It quickly evacuates air from the Air Blaster valve, guaranteeing a full, powerful blast even when the solenoid or 3-way valve is up to 100' from the Air Blaster. This unique valve also insures closure of the Air Blaster valve immediately after the blast. This prevents contamination from entering valve or tank.

Stainless Steel Models - for use in corrosive or "clean" environments. Includes stainless tank, valve body, cap, and seat, polypropylene piston, Teflon encapsulated or silicon o-rings. ***No lubrication required.***

Special Paint - and other modifications to meet individual applications.

Operating Requirements

20-125 PSI. Filtered air. No lubrication required.



Accessories



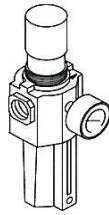
3-Way Shut
Off Valves



2-Way Shut
Off Valves



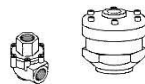
Solenoid Valves



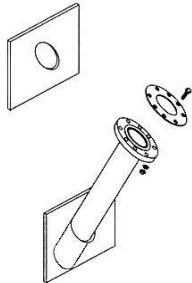
Airline Kits



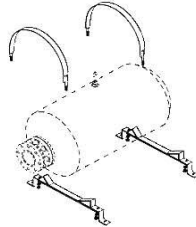
Airline Check
Valves



Quick Exhaust
Valves



Tangential Mount
Plate & Discharge
Assemblies



Mount Hardware Kits

Manual Valves - 2-way manual ball valves used to control the air supply to the Air Blasters and 3-way manual ball valves for manual firing of the Air Blasters.

Solenoid Valves - 3-way normally open solenoid valves for automated firing of the Air Blasters.

Airline Kits - Recommended for trouble-free operation and long life of Air Blasters. Includes airline filter and pressure regulator with gauge. Either standard or auto-drain models available.

Airline Check Valves - Used to prevent accidental firing of Air Blaster if air supply problem causes pressure to drop in Air Blaster fill line.

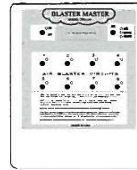
Quick Exhaust Valves - This patent pending valve was designed specifically for use with Global Air Blasters. It quickly evacuates air from the Air Blaster valve, guaranteeing a full, powerful blast even when the solenoid or 3-way valve is up to 100' from the Air Blaster. This unique valve also insures closure of the Air Blaster valve immediately after the blast. This prevents contamination from entering valve or tank. Available as a factory installed option by ordering GWE model.

Tangential Mount Plate & Discharge Assemblies - Directs air blast downward and along the bin wall. Tangentially directed blast, a process patented by Global Manufacturing, is the most effective way to clear material sticking to the bin walls. Assembly includes mount plate, discharge pipe, mount flange, gasket, and hardware. Available in weld-on and bolt-on versions.

Mount Hardware Kits - Straps and hardware for supporting tanks when bin wall strength is not adequate.

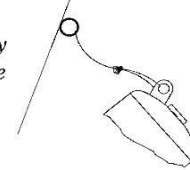
Blaster Master Timer - A micro-controller based sequencing timer used to control the firing time interval and sequence of one or more Air Blasters.

Safety Cable Kits - Includes anchor ring and 14 feet of cable.



Blaster
Master
Timer

Safety
Cable
Kit



GW SERIES STANDARD AIR BLASTER ACCESSORIES

Discharge	Air Blaster Model	Inlet Port Size	3-Way Valve or 3-Way N/O Solenoid when NO QEV USED*	3-Way Valve or 3-Way N/O Solenoid WHEN QEV USED	Quick Exhaust Valve (QEV) ^o	Tangential Mount Discharge Assembly	Tank Mount Hardware	Safety Cable Kit
2.5"	GW2.5-8-24	3/4"	3/4" NPT	3/4" NPT	3/4" or 1" QEV	2T60-20	TMH-08	AB-14
4.0"	GW4-12-28	3/4"	3/4" NPT	3/4" NPT	3/4" or 1" QEV*	4T60-20	TMH-12	AB-14
	GW4-20-30	3/4"	3/4" NPT	3/4" NPT	3/4" or 1" QEV*	4T60-20	TMH-20•	AB-14
6.0"	GW6-24-48	1" ^	1" NPT	3/4" NPT	1" QEV	6T60-20	TMH-24•	AB-14
	GW6-30-60	1" ^	1" NPT	3/4" NPT	1" QEV	6T60-20	TMH-30•	AB-14

* When no Quick Exhaust Valve is used, mount the 3-Way Control Valve within 10' of the Air Blaster for optimum performance.

^o Our patent pending 1" Quick Exhaust Valve can be ordered separately. 4" & 6" GWE models include factory installed 1" Quick Exhaust Valve.

* 3/4" Quick Exhaust Valve must have exhaust CV ≥ 7.84. Global 1" QEV gives greatest performance.

• Two sets of Mount Hardware required for this Air Blaster size.

^ 3/4" Inlet Port for GWE model that has factory installed 1" Quick Exhaust Valve.

GW SERIES STANDARD AIR BLASTER PERFORMANCE DATA							
Air Blaster Model		Air Pressure	PSI	70	80	90	100
			BAR	4.8	5.5	6.2	6.9
2.5" Discharge	GW2.5-8-24 Tank Volume= 0.7 cu ft (19 L)	Free Air Volume	CU FT	3.2	3.8	4.2	4.7
			LITERS	91	108	119	133
		Fill Time	SEC	<10	<10	<10	<10
		Shot Time	SEC	0.08	0.09	0.09	0.09
		Force	LBS	244	275	288	330
			KN	1.09	1.23	1.29	1.48
		Efficiency	LBS/CU FT	76	75	70	72
4.0" Discharge	GW4-12-28 Tank Volume= 1.7 cu ft (49 L)	Free Air Volume	CU FT	8.2	9.4	10.5	11.7
			LITERS	232	265	298	331
		Fill Time	SEC	15	15	15	15
		Shot Time	SEC	0.08	0.08	0.08	0.08
		Force	LBS	877	1021	1200	1300
			KN	3.93	4.58	5.38	5.83
		Efficiency	LBS/CU FT	107	109	114	111
	GW4-20-30 Tank Volume= 5.0 cu ft (142 L)	Free Air Volume	CU FT	23.8	27.2	30.6	34.0
			LITERS	675	771	868	964
		Fill Time	SEC	35	40	40	40
		Shot Time	SEC	0.18	0.20	0.21	0.22
		Force	LBS	1075	1350	1485	1635
			KN	4.82	6.05	6.66	7.33
		Efficiency	LBS/CU FT	45	50	48	48
6.0" Discharge	GW6-24-48 Tank Volume= 10.6 cu ft (299 L)	Free Air Volume	CU FT	50.9	57.4	64.6	71.7
			LITERS	1422	1625	1828	2031
		Fill Time	SEC	90	90	90	105
		Shot Time	SEC	0.20	0.21	0.22	0.23
		Force	LBS	2681	2812	3230	3333
			KN	12.02	12.60	14.48	14.94
		Efficiency	LBS/CU FT	53	49	50	46
	GW6-30-60 Tank Volume= 22.8 cu ft (645 L)	Free Air Volume	CU FT	108.5	124.0	139.5	155.0
			LITERS	3073	3511	3950	4389
		Fill Time	SEC	210	210	210	210
		Shot Time	SEC	0.38	0.40	0.42	0.44
		Force	LBS	3190	3345	3840	3965
			KN	14.30	14.99	17.21	17.77
		Efficiency	LBS/CU FT	29	27	28	26

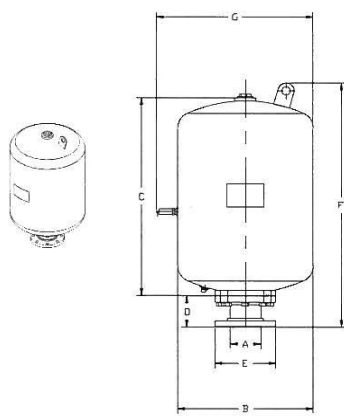
FILL TIME = Time to fill tank within +/- 2 PSI of regulated pressure using 3/8" x 10' fill line. Fill time may vary depending on fill line size and length, compressor characteristics, and environmental conditions.

FORCE measurements were made using an 8" diameter, 1" thick piston, located 4" from the Air Blaster discharge mount flange, to transfer the blast impulse to a dynamic sensor. A 1" solenoid valve, without muffler, mounted directly to the air inlet port was used to fire the GW4 and GW6 model Air Blasters. A 3/4" solenoid was used for the GW2.5 model.

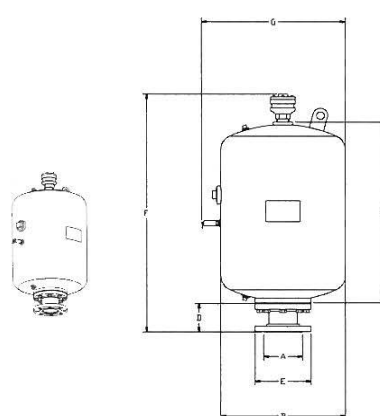
FILL TIME, SHOT TIME & FORCE for the GW6-30-60 were not measured. The data presented is an estimation of performance for this model.

GW SERIES STANDARD AIR BLASTER DIMENSIONS

Discharge	Air Blaster Model	Weight	A	B	C	D	E	F	G	
			Discharge Size	Tank Diameter	Tank Length	Coupling Length	Flange Diameter	Total Length	Total Width	Inlet Port
		LBS	IN	IN	IN	IN	IN	IN	IN	IN
		KG	MM	MM	MM	MM	MM	MM	MM	NPT
2.5"	GW 2.5-8-24	56	2.5	8	24	4.5	7	31.2	9.5	3/4
		25	64	203	610	114	178	792	241	
4.0"	GW4-12-28	94	4.0	12	28	4.6	9	35.3	13.5	3/4
		43	102	305	711	117	229	897	343	
	GW4-20-30	128	4.0	20	30	4.6	9	37.3	21.5	3/4
		58	102	508	762	117	229	947	546	
6.0"	GW6-24-48	260	6.0	24	48	6.0	11	56.7	25.6	1
		118	152	610	1219	152	279	1440	650	
	GW6-30-60	554	6.0	30	60	6.0	11	68.7	31.5	1
		251	152	762	1524	152	279	1745	800	



GW Models



GWE Models



GW SERIES AIR BLASTER WITH QUICK EXHAUST VALVE DIMENSIONS

Discharge	Air Blaster Model	Weight	A	B	C	D	E	F	G	
			Discharge Size	Tank Diameter	Tank Length	Coupling Length	Flange Diameter	Total Length	Total Width	Inlet Port
		LBS	IN	IN	IN	IN	IN	IN	IN	IN
		KG	MM	MM	MM	MM	MM	MM	MM	NPT
2.5"	GW 2.5-8-24*	59	2.5	8	24	4.5	7	33.5	9.5	3/4
		27	64	203	610	114	178	851	241	
4.0"	GWE4-12-28	97	4.0	12	28	4.6	9	37.6	13.5	3/4
		44	102	305	711	117	229	955	343	
	GWE4-20-30	131	4.0	20	30	4.6	9	39.6	21.5	3/4
		59	102	508	762	117	229	1006	546	
6.0"	GWE6-24-48	263	6.0	24	48	6.0	11	59.0	25.6	3/4
		119	152	610	1219	152	279	1499	650	
	GWE6-30-60	557	6.0	30	60	6.0	11	71.0	31.5	3/4
		253	152	762	1524	152	279	1803	800	

* With optional 1" Quick Exhaust Valve added at time of installation. GWE models have Global G-Series Quick Exhaust Valve permanently mounted. Not available for 2.5" discharge Air Blaster.

G400 SERIES HIGH TEMPERATURE AIR BLASTERS



Features

Designed for High Temperature Environments - Special materials used to provide reliable, long term performance in hot environments. Can withstand temperatures encountered when used on kilns operating in excess of 2,000°F (1,100°C). Tolerates ambient temperatures up to 400°F (200°C).

Produces Results Quickly and Efficiently - Quick blast of air permeates the material and dislodges trapped solids.

Handles Big Loads - Air blast spreads out in a cone pattern to aerate and loosen a large volume of material at one time.

Quiet Operation - Noise of air blast is dampened by the material being aerated.

Energy Efficient - Air Blasters have low air consumption since they collect air and are fired intermittently. They require only a small fraction of the air used to operate pneumatic vibrators.

Minimal Maintenance - Single moving part with no springs, motors, or bearings makes Global Air Blasters easy to maintain for many years. **No Lubrication required.** Special synergistic coating on piston is self-lubricating.

More Powerful Air Blast - Direct blast design, lightweight piston, short piston travel, and aerodynamically designed exhaust windows produce a stronger, more productive blast than external valve designs.

Quick Exhaust Valve Standard - Air Blaster has Global's unique G-Series quick exhaust valve permanently mounted. This patent pending valve was designed specifically for use with Global Air Blasters. It quickly evacuates air from the Air Blaster valve, guaranteeing a full, powerful blast even when the solenoid or 3-way valve is up to 100' from the Air Blaster. This unique valve also insures closure of the Air Blaster valve immediately after the blast. This prevents contamination from entering valve or tank.

No Leakage - Piston designed to prevent air loss during blast. Special coated piston incorporates a seal, which prevents air seepage between the piston and valve seat. Air loss can be a problem in blasters using a metal to metal seal.

Fills Faster - Standard quick fill port allows tank to fill in less than 60 Seconds (4" discharge models). This makes rapid repeat firing possible when needed.

Longevity - Coated aluminum piston is self-lubricating. Coated valve parts resist acidic and basic environments. Piston movement engineered to prevent excessive wear and high impact.

Ease of Service - All parts individually replaceable. If a part becomes worn or damaged, it is not necessary to replace the entire valve assembly.

ASME Certified Pressure Vessels

Five Year Warranty

Options

Stainless Steel Models for use in corrosive or "clean" environments. Includes stainless tank, valve body, cap, and seat, special coated aluminum piston, Teflon encapsulated or silicon o-rings. **No lubrication required.**

Special Paint and other modifications to meet individual applications.

Operating Requirements

20-125 PSI. Filtered air. No lubrication required

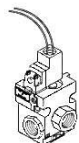




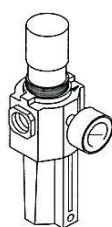
3-Way Shut Off Valves



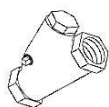
2-Way Shut Off Valves



Solenoid Valves



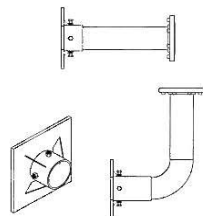
Airline Kits



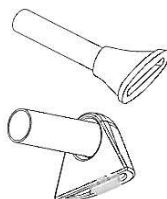
Airline Check Valves



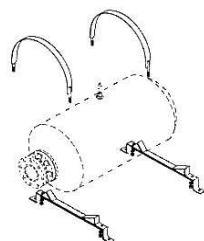
Quick Exhaust Valves



High Temperature Discharge Assemblies



Diffuser Nozzles



Mount Hardware Kits

Accessories

Manual Valves - 2-way manual ball valves used to control the air supply to the Air Blasters and 3-way manual ball valves for manual firing of the Air Blasters.

Solenoid Valves - 3-way normally open solenoid valves for automated firing of the Air Blasters.

Airline Kits - Recommended for trouble-free operation and long life of Air Blasters. Includes airline filter and pressure regulator with gauge. Either standard or auto-drain models available.

Airline Check Valves - Used to prevent accidental firing of Air Blaster if air supply problem causes pressure to drop in Air Blaster fill line.

Quick Exhaust Valves - Standard on all G400 Air Blasters. This patent pending valve was designed specifically for use with Global Air Blasters. It quickly evacuates air from the Air Blaster valve, guaranteeing a full, powerful blast even when the solenoid or 3-way valve is up to 100' from the Air Blaster. This unique valve also insures closure of the Air Blaster valve immediately after the blast. This prevents contamination from entering valve or tank.

High Temperature Diffuser Nozzles - Used to direct air blast for special applications. See inside of back cover for more details.

High Temperature Mount Plate & Discharge Assemblies - Assemblies include mount plate, discharge pipe, mount flange, high temperature gasket, and hardware. Available in weld-on and bolt-on versions.

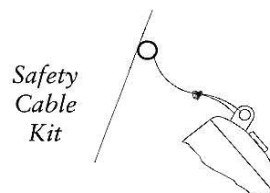
Mount Hardware Kits - Straps and hardware for supporting tanks when bin wall strength is not adequate.

Blaster Master Timer - A micro-controller based sequencing timer used to control the firing time interval and sequence of one or more Air Blasters.

Safety Cable Kits - Includes anchor ring and 14 feet of cable.



Blaster Master Timer



Safety Cable Kit

G400 SERIES HIGH TEMPERATURE AIR BLASTER ACCESSORIES

Discharge	Air Blaster Model	Inlet Port Size	3-Way Valve or 3-Way N/O Solenoid	Quick Exhaust Valve*	Straight High Temp. Discharge Assembly	90° High Temp. Discharge Assembly	Tank Mount Hardware	Safety Cable Kit
4.0"	G400-40-50	3/4"	3/4" NPT	1" QEV	4HT	4HT90S	TMH-12	AB-14
	G400-40-150	3/4"	3/4" NPT	1" QEV	4HT	4HT90L	TMH-20**	AB-14
6.0"	G400-60-300	3/4"	3/4" NPT	1" QEV	N/A	N/A	TMH-24**	AB-14
	G400-60-650	3/4"	3/4" NPT	1" QEV	N/A	N/A	TMH-30**	AB-14

* All G400 Air Blasters include a factory installed 1" Quick Exhaust Valve.

** Two sets of Mount Hardware required for this size Air Blaster.

G400 SERIES HIGH TEMPERATURE AIR BLASTER PERFORMANCE DATA							
Air Blaster Model		Air Pressure	PSI	70	80	90	100
			BAR	4.8	5.5	6.2	6.9
4.0" Discharge	G400-40-50 Tank Volume= 1.7 cu ft (49 L)	Free Air Volume	CU FT	3.2	3.8	4.2	4.7
			LITERS	91	108	119	133
		Fill Time	SEC	<10	<10	<10	<10
		Shot Time	SEC	0.08	0.09	0.09	0.09
		Force	LBS	244	275	288	330
			KN	1.09	1.23	1.29	1.48
	G400-40-150 Tank Volume= 5.0 cu ft (142 L)	Efficiency	LBS/CU FT	76	75	70	72
		Free Air Volume	CU FT	8.2	9.4	10.5	11.7
			LITERS	232	265	298	331
		Fill Time	SEC	15	15	15	15
		Shot Time	SEC	0.08	0.08	0.08	0.08
		Force	LBS	877	1021	1200	1300
			KN	3.93	4.58	5.38	5.83
		Efficiency	LBS/CU FT	107	109	114	111
6.0" Discharge	G400-60-300 Tank Volume= 10.6 cu ft (299 L)	Free Air Volume	CU FT	23.8	27.2	30.6	34.0
			LITERS	675	771	868	964
		Fill Time	SEC	35	40	40	40
		Shot Time	SEC	0.18	0.20	0.21	0.22
		Force	LBS	1075	1350	1485	1635
			KN	4.82	6.05	6.66	7.33
	G400-60-650 Tank Volume= 22.8 cu ft (645 L)	Efficiency	LBS/CU FT	45	50	48	48
		Free Air Volume	CU FT	50.9	57.4	64.6	71.7
			LITERS	1422	1625	1828	2031
		Fill Time	SEC	90	90	90	105
		Shot Time	SEC	0.20	0.21	0.22	0.23
		Force	LBS	2681	2812	3230	3333
			KN	12.02	12.60	14.48	14.94
		Efficiency	LBS/CU FT	53	49	50	46

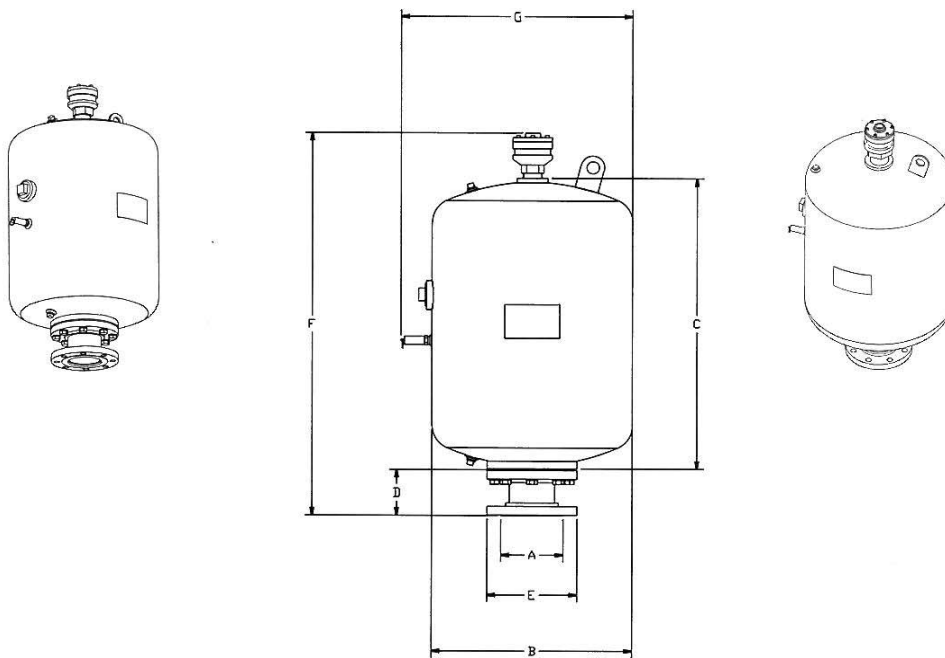
FILL TIME = Time to fill tank within +/- 2 PSI of regulated pressure using 3/8" x 10' fill line. Fill time may vary depending on fill line size and length, compressor characteristics, and environmental conditions.

FORCE measurements were made using an 8" diameter, 1" thick piston, located 4" from the Air Blaster discharge mount flange, to transfer the blast impulse to a dynamic sensor. A 1" solenoid valve, without muffler, mounted directly to the air inlet port was used to fire the Air Blasters.

FILL TIME, SHOT TIME & FORCE for the G400-60-650 were not measured. The data presented is an estimation of performance for this model.

G400 SERIES HIGH TEMPERATURE AIR BLASTER DIMENSIONS

Air Blaster Model		Weight	A	B	C	D	E	F	G	
			Discharge Size	Tank Diameter	Tank Length	Coupling Length	Flange Diameter	Total Length	Total Width	Inlet Port
		LBS	IN	IN	IN	IN	IN	IN	IN	IN
		KG	MM	MM	MM	MM	MM	MM	MM	NPT
4.0" Discharge	G400-40-50	97	4.0	12	28	4.6	9	37.6	13.5	3/4
		44	102	305	711	117	229	955	343	
	G400-40-150	131	4.0	20	30	4.6	9	39.6	21.5	3/4
		59	102	508	762	117	229	1006	546	
6.0" Discharge	G400-60-300	263	6.0	24	48	6.0	11	59.0	25.6	3/4
		119	152	610	1219	152	279	1499	650	
	G400-60-650	557	6.0	30	60	6.0	11	71.0	31.5	3/4
		253	152	762	1524	152	279	1803	800	



HIGH TEMPERATURE DIFFUSER NOZZLES

Features

Enhances Air Blaster Performance - Directs air blast along structure walls to enhance the removal of material build-ups.

Designed for High Temperature Environments - Special stainless steel alloy withstands high temperature corrosion including oxidation, sulphidation, carburization, nitridation, and halogen corrosion. Withstands temperatures encountered in kilns operating in excess of 2,000°F (1,100°C).

Longevity - Heavy duty cast design provides long life under high temperatures and exposure to flue gases.

Versatile Design - *Patent pending* Adjustable Angled Nozzle easily customized at the factory or on-site to provide a wide variety of both nozzle tilt and lateral swivel angles for those hard to reach problem areas.

Ease of Installation - Order to fit exact wall specifications or complete fabrication on-site, using only square pipe cuts, for most customized fits.

Easy Replacement - Global Manufacturing's High Temperature Mount Plate or Discharge Assemblies allow user to easily replace nozzle without dismounting the Air Blaster.

One Year Warranty

Options

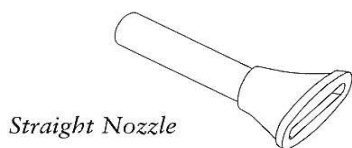
Straight Nozzle - For use in corners to clean adjacent wall.

On cylindrical structures, mount at an angle, producing a tangential blast, to effectively clean walls.

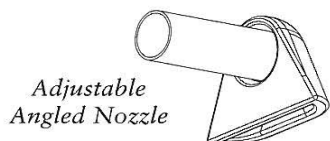
Adjustable Angled Nozzle - *Patent pending* design provides exact nozzle angle for many hard-to-reach locations. Nozzle tilt angles from 60-120° and lateral swivel angles up to 30° are available. Order factory-made to the desired angle or complete fabrication on-site for custom fits.

Operating Requirements

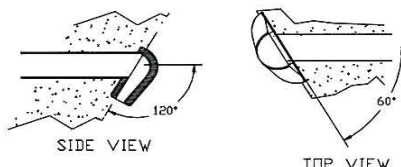
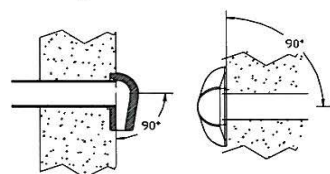
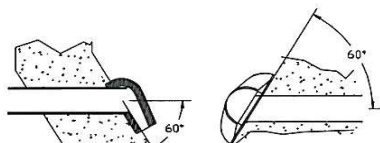
For use with any 4" discharge Air Blaster system.



Straight Nozzle

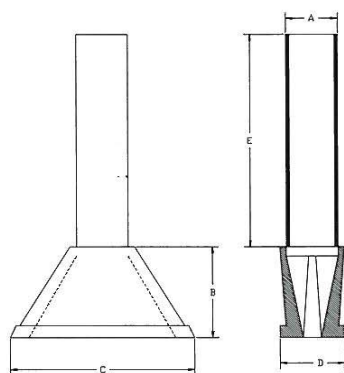


Adjustable Angled Nozzle

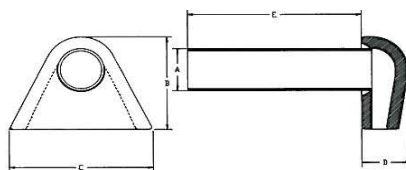


Adjustable Nozzle Tilt Limits

Adjustable Nozzle Swivel Limits



Straight Nozzle



Adjustable Angled Nozzle

DIMENSIONS

Model	Weight	A	B	C	D	E
		Discharge Pipe Size	Length	Width	Depth	Pipe Length
		LBS IN KG MM	IN MM	IN MM	IN MM	IN MM
Nozzle with Pipe	4HTP- Straight	61	4.0	7.7	14.3	5.0
		27	102	196	363	127
	4HTPA- Angled	74	4.0	9.9	14.1	4.3
		33	102	251	358	108
Nozzle without pipe	4HT- Straight	44	4.0	7.7	14.3	5.0
		20	102	196	363	127
	4HTA- Angled	57	4	9.9	14.1	4.3
		26	102	251	358	108
Mount Plate	4HTW	23	4.0	12	12	4.0
		10	102	305	305	102

*Note: Must have 6" x 4" reducer coupling options for G400-60-300 and G400-60-650 models.