

"American" Sand Blast Pressure Tanks

Practical equipment for sand blasting with sand, metal grit, and shot abrasives.

Suitable for cleaning steel, malleable, and gray iron castings, stonework, chemical apparatus, etc.

Built to comply with the most rigid safety statutes.



The American Foundry Equipment Co.
INCORPORATED

366 Madison Avenue, New York

PHILADELPHIA

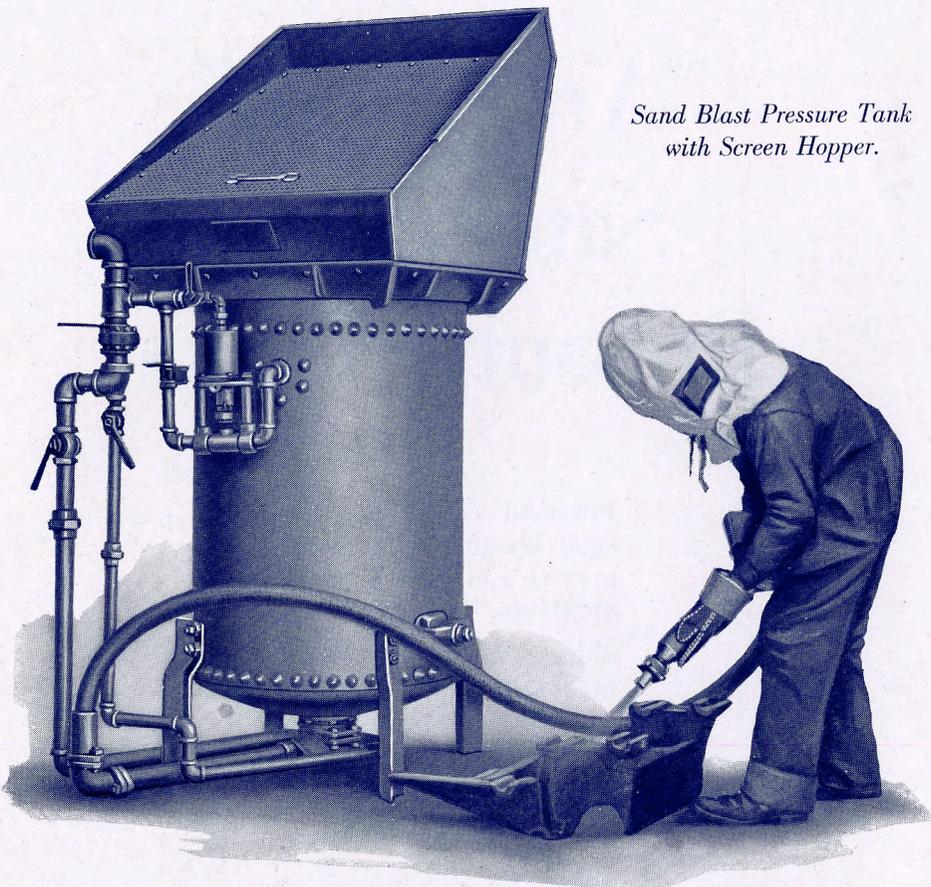
CLEVELAND

PITTSBURGH

DETROIT

YORK

CHICAGO



*Sand Blast Pressure Tank
with Screen Hopper.*

“American” Sand Blast Pressure Tanks

Air Controlled

THE American Pressure Tank is a convenient blast unit, suited for high or low pressure service, for cleaning sand, scale, rust, paint, etc., from a great variety of materials including gray iron, malleable, and steel castings, drop forgings, railroad cars, automobile bodies, and numerous other applications. They are excellent for cutting monument inscriptions through a mask, and for cleaning stone work.

These same tanks are furnished as an integral part of American Pressure Type Sand Blast Barrels and Rooms. When so used the blast action is enclosed, and the dust confined and drawn off into an arrester, making the equipment virtually dustless and suitable for indoor use. In such installations the abrasive is automatically recovered and cleaned without any attention on the part of the operator.

When the tank outfit only is purchased it should be used in situations where sand and dust will not be objectionable, unless some sort of housing and dust exhaust system are provided.

Simple Operation

The operation is entirely by air controls, including adjusting valves for regulating the mixture of sand and air to any desired leanness or richness. There are no movable or adjustable valves in the path of the abrasive that might wear or clog. Fittings are made extra heavy and durable.

Sand is put in at the top by shoveling into the tank head or upon the oblique screen.

Removable Screen Hopper

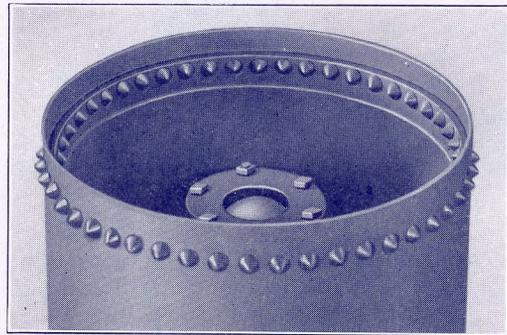
Pressure tanks are furnished with or without sheet steel screen hopper, as ordered. The screen hopper facilitates charging and recharging by automatically screening out coarse material and rubbish that might otherwise lodge and clog the operation. It also is most desirable in that it can be filled while blasting continues, and its contents will discharge into the pressure tank with the filling valve open for a minimum length of time.

Construction

Tank Body: Riveted steel boiler plate, caulked, and tested to 150 pounds hydraulic pressure. Built to comply with the safety laws of the most rigid states. Armhole provided for access to interior.

Filling Valve: A feature located in the tank head and operated by an air valve. Sand in the hopper or concave tank head flows into the tank when the

air pressure is released and the filling valve opens. There is only one moving part to this mechanism, a mushroom plug inside the tank. Should it ever need attention the entire valve can be quickly removed.

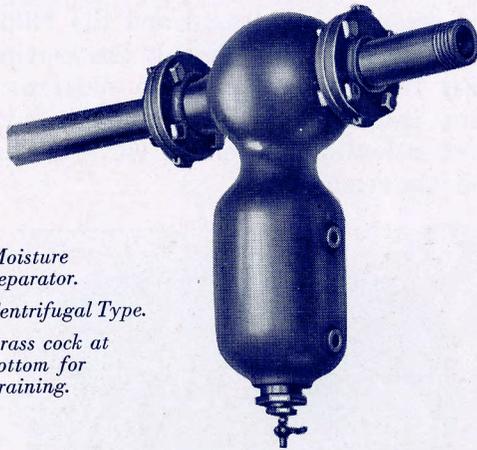


*Concave Head of Tank Body.
Screen hopper removed and filling valve in open position.*

Patented Mixing Chamber: The sand or other abrasive feeds downward from an opening in the bottom of the tank into a sand trap or mixing chamber from which it is drawn by the injector action of the main air jet and driven into the blast line. The sand feeds into the center of the air current and the mixing chamber is scientifically designed along stream-line principles so the sand is held in the center where it cannot wear the walls of the chamber. The life of the mixing chamber is therefore indefinitely long.

Should clogging ever occur at this point a momentary reversal of the air flow as explained in the instruction circular will usually clear it.

Air Release Valve: A patented feature for quickly discharging air pressure from the tank. It operates on the poppet-valve principle so that slight traces of dust or sand carried by the released air cannot injure the finely machined valve stems or valve seats.



*Moisture Separator.
Centrifugal Type.
Brass cock at bottom for draining.*

Air Inlet and Adjusting Valves: The tank is completely equipped with quick-opening brass gate valves necessary for starting, stopping and filling. Adjustable brass valves with dial indicators are used to regulate the proportions of sand and air. A leaflet accompanying each shipment clearly explains and illustrates the operation of these valves, which is quite simple and requires no skill or experience.

Screen Hopper: Made of sheet steel, faced with a four mesh steel wire screen, and held on the tank body by a ring casting.

Abrasive: Sand is most commonly used but other abrasives, such as chilled shot or steel grit, may be used equally well without change in the mechanism.

Blast Hose: A 10 foot length of first quality heavy rubber sand blast hose is furnished, together with nozzle holder.

Nozzles: 50 nozzles are furnished with each tank, $\frac{3}{8}$ -inch aperture unless a different size is specified in the order. Nozzles can usually be replaced in 20 seconds when worn.

Complete with Accessories

With each Pressure Tank we also include an air gauge, a moisture and oil separator for the air line, valves and piping substantially as shown in the view on page 2, an operator's helmet, respirator, and a pair of gloves.

Specifications

Tank body, 30-inch diameter by 36 inches high.

Over-all height, with screen hopper, 84 inches.

Over-all height, without screen hopper, 51 inches.

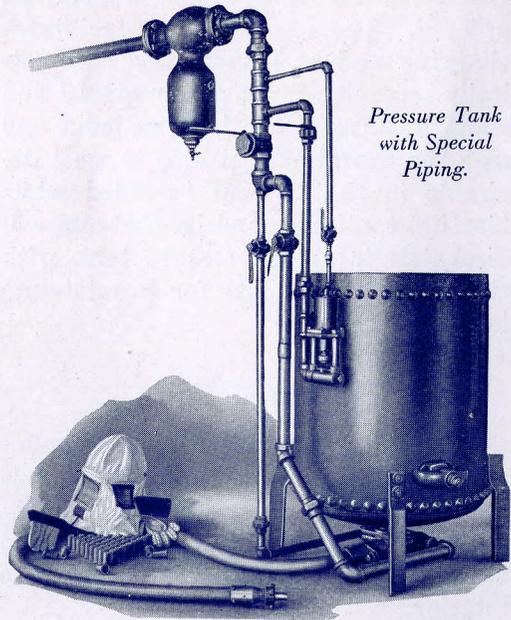
Sand holding capacity.....1200 lb.

Metal abrasive capacity.....3600 lb.

Net weight, with hopper.....1065 lb.

Shipping weight1420 lb.

Weight of hopper alone..... 280 lb.



Pressure Tank with Special Piping.

Sand Cutters . Sand Blast . Molding Machines . Core Machines . Flask Bars
Snap Flasks . Dust Arresters . Oven Trucks . Charging Buckets . Pattern Compound