



High Pressure Equipment

Gas Boosters

MODEL GBS - 30

30,000 psi Gas Booster System
(One-to-one ratio — 112 cubic inch
per stroke displacement)
(17-4PH stainless steel construction)

MODEL GBS - 60

60,000 psi Gas Booster System
(Thirty-to-one ratio — 4.7 cubic inch
per stroke displacement)
(4340 alloy steel construction)



The Model GBS-30 and GBS-60 Gas Booster Systems are complete and ready to operate. All that is required is an air supply for the pump (approximately 70 psi) and a commercially available container of compressed gas.

The steel console is 26" wide, 24" deep, 40" high and includes manual valves, air regulator, filter and lubricator, air gauge, high pressure gauge, reservoir, oil filter, pump, gas booster and related high pressure tubing and fittings.

Operation is by means of an air operated hydraulic pump which pressurizes one end of the gas booster which then compresses the gas in the opposite end of the booster. To accomplish this, the gas inlet valve is opened to permit gas to fill the gas end of the booster. Check valves are provided to permit gas flow in one direction only. With the gas outlet valve open, the hydraulic pump is operated in order to pressurize the hydraulic end of the booster. Thus, the gas is compressed in the booster. If required pressure is not reached by the end of the stroke, the gas booster can easily be recycled for additional strokes.

Note the gauge on these systems is connected to the hydraulic side of the booster. On the Model GBS-30 which has a 1 to 1 ratio, there is a direct reading of the pressure in the gas end of the booster. The Model GBS-60 has a 30 to 1 ratio and the gauge will accordingly indicate a reading of one-thirtieth (1/30) of the actual pressure in the gas end of the booster. An additional gauge can be furnished for connection to the gas end of the booster to provide direct pressure readings of the gas pressure.

Details of the gas boosters are shown on facing page 117.

These systems should not be used with hydrogen or oxygen.

