Filtration Group®
Hydraulics

Hydraulic Pressure Boosting

# Minimum Size - Maximum Power for Onsite Tire Removal Applications

## Advantages

- High pressure performance from existing low pressure power source
- Compact size allows installation where the pressure is needed
- Lightweight, energy saving design
- Easily incorporated in existing or new systems
- Pressure at 10,000+ PSI can be obtained from a low pressure hydraulic power source

## Maximize Your Performance - Minimize Your Costs

ONSITE servicing of large industrial equipment is challenging. Jacking up earth movers or pressing tires on and off their rims demand maximum force in a compact and portable design. The ability to make repairs without transporting equipment back to a workshop avoids costly downtime.

By tapping directly into the hydraulic system of the industrial equipment, miniBOOSTER converts standard hydraulic pressure to high pressure at the point of use.

The miniBOOSTER can utilize the exhisting low pressure vehicle hydraulic system to supply higher pressures needed to operate tools such as torque wrenches, nut breakers, and heavy duty lifting equipment, (jacks), for tire changes and maintenance.

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miniBOOSTER®

# Hydraulic Pressure Intensifier System for Tire Removal Applications

## HC2

## M-HC-011

## How It Works

miniBOOSTER can tap directly into the hydraulic system of on-site industrial equipment to convert standard hydraulic pressure to high pressure at the point of use.

The HC2 is a compact unit weighing only 2.2 pounds. It is ideal for use in a variety of applications where building and maintaining high pressure is required. It is the standard for most retaining and clamping tool applications. The HC2 raises supplied pressure to a higher outlet pressure and automatically compensates for consumption of oil to maintain the high pressure.

The M-HC-011 In-line Intensifier System is designed to boost the hydraulic pressure from the pump to the workload. It operates only when needed, for the sake of saving energy. The hydraulic oil is by-passed directly from the pump to the workload at maximum flow when back pressure from the workload has reached a set point close to the maximum pressure of pump. A sequence valve opens and directs the oil to the intensifier, which increases the pressure. The shift between maximum pump pressure and high pressure happens automatically and ensures that the workload will be driven at a maximum speed in relation to the high pressure needed. A relief valve is installed to prevent the intensified pressure from exceeding the maximum allowable system pressure.

Adjustment of the outlet pressure on all miniBOOSTERS is carried out by varying the supplied pressure, $P_H = (P_{IN} - P_{Return})$ i, where i equals intensification.

## Specifications

| Model | Description | Max $P_H$ - Outlet Pressure PSI (BAR) | $P_{IN}$ - Inlet Pressure Range PSI (BAR) | $P_R$ - Return Pressure | Connection | Overall Dimensions inches (mm)* | Weight lbs (Kg) |
|---|---|---|---|---|---|---|---|
| HC2 | Inline Compact Intensifier | 11600 (800) | 290 - 2900 (20-200) | Decreases $P_H$ Directly | In Line Tube | 1.97ϕx4.33L (50ϕx110L) | 2.2 (1) |
| M-HC3-011 | Inline Compact Intensifier | 10200 (700) | 290 - 2900 (20-200) | Decreases $P_H$ Directly | In Line Tube | 4.45x4.65x9.96L (113x118x253L) | 21 (9.5) |

*For complete illustration details consult the product information page at www.minibooster.com or request a drawing from customer service.

**Call customer service at 1.716.683.0435 for technical or ordering information.**

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