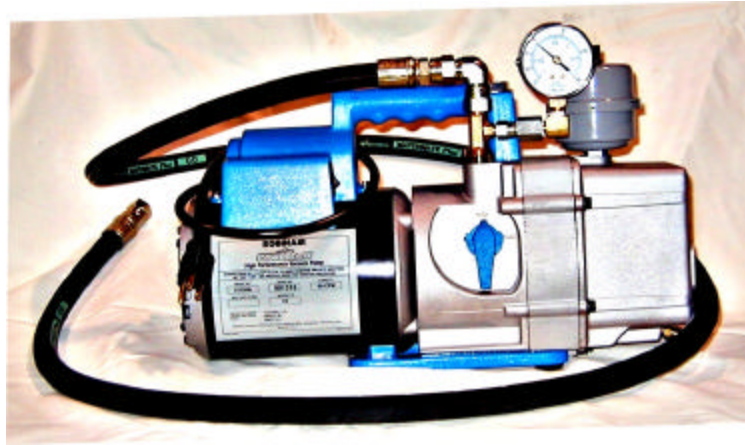


# **MSD-VPS**

(Vacuum pump system)



The Machinery Service & Design vacuum system is used to assist the reassembly of hydraulic cylinders.

This system takes advantage of atmospheric pressure to simplify the process of entering seals into the bore chamfer and retracting the shaft.

Our two-stage pump delivers high volume and produces vacuum up to 30" of mercury.

The pump is connected to the rear port of the tube while the front port is blocked with a cap plug. When the first seal starts into the chamfer a vacuum begins to build up in the tube and atmospheric air pressure forces the piston into the bore.

Examples of pressure build-up:

At a 4" bore the force will reach 180 lbs/sq. in.

At a 5" bore the force will reach 420 lbs/sq. in.

At a 6" bore the force will reach 750 lbs/sq. in.



This system eliminates having to pound the piston into the bore with the real possibility of damaging the seals during this process. The technician simply glides the assembly to the point desired.

With the subtleties of the vacuum system any tight spots are caught before doing any damage.

Using the vacuum assembly is a fast, safe and ergonomically effective way to streamline cylinder assembly.



**"NEW GENERATION OF AFFORDABLE HYDRAULIC REBUILDING EQUIPMENT"**

MACHINERY SERVICE & DESIGN, INC.

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